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SHORT BIOSKETCH

Moorthi Chitravel is currently a Technical Engineer at National Centre for Sustainable Coastal Management, Chennai, India. Prior to this appointment, he also worked as an IT specialist at the Centre for Sponsored Research and Consultancy and Department of Chemical Engineering of Anna University, Chennai and Indian Institute of Technology (IIT), Madras. He holds a bachelor's degree in computer science from Bharathidasan University, Tiruchirappalli, a master's degree in computer applications from Bharathidasan University, Tiruchirappalli.

Moorthi has more than 11 years (full-time) professional experience in Information Technology, which includes 8.5 years Anna University, Chennai and 1.3 years Indian Institute of Technology (IIT), Madras. He has started his first career as a Project Associate at Indian Institute of Technology (IIT), Madras, India in 2012. In July 2014, Moorthi joined Anna University, Chennai, India, as a System Specialist in the Department of Chemical Engineering. He also served as a Technical Analyst in State Project Directorate, Chennai, Government of Tamil Nadu, during July 2019.

He has experienced IT specialist with a demonstrated working history in the higher education department, with a focus on server administration, network administration, IT infrastructure management, team development, and operational needs. Moorthi's research interests have been majorly in the area of Cyber Security, Web Security, Network Security, Application Security, and High-Performance Computing. Moorthi also maintain the IT Infrastructure project of the institute where the revamping the university as well departmental is under way.

Moorthi has won the first rank award for excellence in undergraduate subjects, the highest recognition conferred by Bharathidasan University to individual student for ranking. He has won the best student award of Department of Computer Science three years consecutively-2006, 2007, and 2008.

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PROFESSIONAL SUMMARY

Overall **11 years'** experience in IT field, out of which 3 years of managerial position to manage IT Infrastructure of the department and Overall responsibility handling IT Administration, Development, Implementation and Maintenance.

QUALIFICATIONS

- 2008-2011 Master's in Computer Applications, First Class-Distinction
Jamal Mohamed College (Autonomous), Tiruchirappalli
Bharathidasan University, India
- 2005-2008 Bachelor's in Computer Science, First Class
Sri Venkateshwara College of Arts and Science, Peravurani
Bharathidasan University, India

WORK EXPERIENCE

- 2022.11 - Present **Technical Engineer-II**, NCSCM, Chennai, India
- 2022.05 - 2022.10 **Project Associate-I**, Anna University, Chennai, India
- 2014.07 - 2022.04 **System Specialist**, Anna University, Chennai, India
- 2012.12 - 2014.02 **Project Associate**, IIT Madras, Chennai, India

RESEARCH INTERESTS

Cyber Security, Web Security, Network Security, Application Security

AREAS OF EXPERTISE

Network Security, Cyber Security and threat intelligence
VMware Virtualization, Firewall Management
Security & VPN, Routing and Switching (Cisco/HPE)
Active Directory (AD), Network Monitoring (Nagios/Zabbix)
Windows Server Administration
Linux Server Administration

NCSCM, Chennai, India
Technical Engineer-II

November 2022 – Present

Responsibilities

Network Administration

Network Infrastructure Management:

- Configuring and managing virtual networks in the VMware environment, including virtual switches, network adapters, and other network components.
- Maintain, implement, and manage the institute network infrastructure, including LAN, WAN, WLAN, and VPN connections.
- Maintain, implement, and manage the institute networking protocols, technologies, and architectures, including TCP/IP, DNS, DHCP, VLANs, routing, and switching.
- Ensure network reliability, performance, and security through the implementation of best practices and industry standards of NCSCM.
- Monitor network traffic, analyze data, and implement optimizations to improve efficiency and resource utilization.

Network Security:

- Implement and maintain security measures, including firewalls, intrusion detection/prevention systems, and endpoint protection solutions, to safeguard against cyber threats and unauthorized access in compliance with Group rules.
- Participate to regular security audits, vulnerability assessments, and penetration testing, under the governance of NCSCM and with the help of our NDC (National Data Center) to identify and address potential vulnerabilities and weaknesses in the network infrastructure.

System Administration:

- Primary responsibility includes managing & maintaining windows server infrastructure including installation, configuration & troubleshooting of Windows server operating Systems.
- System administration tasks, including server deployment, configuration management, and troubleshooting (Windows, Linux, Azure).
- Administer and maintain servers, storage systems, and virtualization environments, ensuring optimal performance, availability, and security
- Perform routine maintenance tasks, such as patches and updates, to minimize downtime and mitigate security risks.

Server Administration

- **Enterprise Server Management:** Oversee the design, deployment, and maintenance of enterprise-grade server infrastructure, including physical and virtual servers, to ensure optimal performance, reliability, and scalability.
- **Server Troubleshooting:** Investigate and resolve server-related issues, including performance degradation, hardware failures, software glitches, and connectivity problems, utilizing advanced troubleshooting techniques and diagnostic tools.
- **Server Monitoring and Performance Tuning:** Implement server monitoring tools and performance monitoring solutions to proactively monitor server health, analyze system performance metrics, and identify opportunities for optimization and improvement.
- **Patch Management and Security:** Manage server patching and software updates, ensuring timely application of security patches and firmware updates to mitigate vulnerabilities and protect server assets from cyber threats and security breaches.

VMware Administration

- **Installation and Configuration:** Installing and configuring the VMware software and infrastructure components, including servers, databases, and applications.
- **Virtual Machine Management:** Managing virtual machines and their delivery in the VMware environment. This includes creating, configuring, and managing virtual machines, templates, and snapshots.
- **Performance Monitoring and Optimization:** Monitoring the performance of the VMware infrastructure, identifying performance bottlenecks, and optimizing the infrastructure for better performance.
- **Security Management:** Ensuring the security of the VMWare infrastructure, including implementing security policies, configuring firewalls and other security settings, and conducting security audits.
- **Troubleshooting and Problem Resolution:** Identifying and resolving technical issues in the VMware environment, including server failures, virtual machine crashes, and other issues.
- **Virtualization Technologies:** Implement and manage virtualization platforms, such as VMware vSphere, Microsoft Hyper-V, or Citrix XenServer, to optimize server resource utilization, facilitate workload migration, and improve system flexibility and efficiency.

Data Center Administration:

- Manage data center servers, rack-mounted systems, blade servers, and related hardware components, ensuring proper installation, configuration, and connectivity within the data center environment.
- Designing and implementing network infrastructure to support the needs of the organization, including data center networking, virtualization, and cloud computing.
- Configuring and managing network devices such as routers, switches, and firewalls.
- Implementing network security measures to protect the organization's data and ensure compliance with security policies and regulations.
- Troubleshooting network issues and performing regular maintenance and upgrades to the network infrastructure.
- Staying up to date with the latest trends and technologies in network engineering and implementing new tools and techniques as necessary.
- Developing and maintaining relationships with vendors and partners to ensure the smooth operation of the network infrastructure.
- Manage virtualized environments using VMware vSphere or Microsoft Hyper-V, including VM provisioning, performance monitoring & troubleshooting.
- Lead server deployment projects including planning, provisioning & configuring new Servers.
- Configure & manage Active directory services, including accounts, group policies & organization units.
- Perform regular maintenance tasks such as applying patches on Windows & Linux Servers.
- Manage servers Backup using backup software.
- Collaborating with IT teams to ensure seamless integration of network infrastructure with other systems and applications.

Storage Administration**Storage Solutions:**

- Configure and manage storage systems, including SAN (Storage Area Network), NAS (Network Attached Storage), and DAS (Direct Attached Storage), to ensure adequate storage capacity, performance, and data availability for enterprise workloads.

Storage Administration

Backup and Disaster Recovery:

- Develop and maintain backup and disaster recovery strategies for server environments, including data backup procedures, recovery point objectives (RPOs), and recovery time objectives (RTOs), to ensure data protection and business continuity.
- Implementing and managing backup and disaster recovery solutions for the VMware environment, ensuring the availability and integrity of critical data and applications.

Backups:

- Ensure backup (servers and network) and regularly test our backup solutions.

Storage Management:

- Managing storage resources and configuring storage policies for virtual machines in the VMware environment.

Documentation and Compliance:

- Maintain accurate documentation of server configurations, system changes, and troubleshooting procedures, and ensure compliance with industry regulations, standards, and best practices related to server administration and data management.
- Documenting the VMware infrastructure, SOPs, creating reports on system performance and usage, and communicating with management and other stakeholders about the status of the VMware environment.
- Ensure the implementation of operating procedures.

Anna University, CSRC, Chennai, India
Project Associate-I

May 2022 – October 2022

Responsibilities

- Assist in the design and implementation of school centralised IT infrastructure setup supporting academic requirements.
- Assist on IT related issues like setting up of computers, troubleshooting, planning for IT resources, support event on IT and AV matters.
- Manage information technology and computer systems, which includes, but is not limited to, installation, maintenance, troubleshooting computer hardware and software, and Linux server administration.
- Administer computer, telecommunications, audio & video (AV), and information systems.
- Ensure security of data, network access, and backup systems.
- Identify problematic areas and implement strategic solutions in time. Where required, liaise with Anna University CSRC, vendors, and contractors to identify root causes identify control measures, and implement solutions.
- Audit systems, and assets and propose improvement measures where required.
- Maintain current and accurate inventory of technology hardware, software, and resources.
- Plan, design, implement, manage and maintain the server, storage and visualized infrastructure deployed in the data centre.
- Perform network maintenance and system upgrades including service packs, patches, hot fixes and security configurations.
- Provide end user computing support for staff and faculty in centre including software deployment and troubleshooting.
- Responsible for the maintenance, configuration, and reliable operation of computer systems, network servers, and virtualization.
- Install and upgrade computer components and software, manage virtual servers, and integrate automation processes.
- Troubleshoot hardware and software errors by running diagnostics, documenting problems and resolutions, prioritizing problems, and assessing impact of issues.
- Provide documentation and technical specifications for planning and implementing new or upgrades of IT infrastructure.
- Perform and monitor regular backup operations and implement appropriate processes for data protection, disaster recovery, and failover procedures.

Anna University, Chemical Engg., Chennai, India
System Specialist

July 2014 – April 2022

Responsibilities

- Install, configure, and maintain Windows/Linux operating systems and related software.
- Monitor system performance, troubleshoot issues, and ensure high availability and reliability of Linux-based infrastructure.
- Collaborate with cross-functional teams to design and implement Linux-based solutions that meet business needs.
- Implement and maintain security measures to protect Linux systems from unauthorized access and ensure compliance with industry regulations.
- Perform regular system backups and disaster recovery procedures to minimize data loss and maintain business continuity.
- Manage user accounts, permissions, and access controls to ensure proper system security and data integrity.
- Install, configure, and maintain network services, including DNS, DHCP, and LDAP.
- Collaborate with software developers and system analysts to troubleshoot and resolve software compatibility issues on Linux platforms.
- Evaluate and recommend hardware and software upgrades to improve system performance and scalability.
- Installing and configuring Windows/Linux servers or workstations.
- Maintaining patching, security, and other endpoint management functions of Windows servers and workstations.
- Analyzing functional and performance issues associated with use of technology, collaborate with peers on possible solutions and implement corrective actions in a timely manner.
- Analyzing functional and performance issues with Windows systems and service environments, and working with peers and senior staff on possible solutions.
- Maintaining core service technology in infrastructure, research, or instructional systems, including service oversight and ownership as needed.
- Planning and maintaining patching, security, and other endpoint management functions of Windows servers and workstations.
- Designing and implementing networking for Windows systems to allow network connectivity and access to network resources.
- Planning and implementing major system upgrades and refreshes, including acquisition of new hardware, applications, and licensing need.

**Indian Institute of Technology (IIT), Madras, India
Project Associate****Dec.2012- Feb.2014****Responsibilities**

- Responsible for ensuring implementation, operation, maintenance and performance monitoring of all IT related infrastructure inside the Campus, including computer labs and associate software for all IT systems and infrastructure throughout the Institute.
- Responsible for protect data, software, and hardware by implementing necessary security measures; Identification of IT procurement requirements and specification and work with vendors in computing procurement and installation; regular reporting to university officials on IT Infrastructure and its performance; and Impart training to team members and others from the University.
- Responsibilities include upgrading the Department IT infrastructure from a software perspective; configuring and enabling firewalls; using endpoint management tools; reviewing password policies, access policies, and the user memberships for different servers; creating unique, non-privileged accounts for each user; creating and maintaining an inventory of systems that includes device ownership, contact information, and network configuration and an application inventory.
- Responsible for diagnosing and resolving IT technical issues; providing technical support to staff and for workshops, conferences, and events; configuring and deploying new systems; assisting with developing and maintaining documentation; assisting with serving as a backup during absences and being available in the event of an emergency.
- Provide effective and timely day-to-day IT desktop support, advice, guidance and Tier I & Tier II diagnosis and problem resolution for the work area's devices, hardware, software, network, systems and other computing related technologies.
- Provide computer hardware and software support for staff, including new system installs, software and hardware installs and upgrades, troubleshooting, application support, printing, and user training.

PROGRAMMING SKILLS

Programming	C, C++, Java, Php
Databases	MySQL, MS-SQL Server
GUI	Visual Studio 2012/2010/2008/2005
Web Related	AJAX, Web Services, IIS, HTML, JavaScript, AngularJS
Administration	Windows Server, Linux, Server, DNS, DHCP, Mail
Web/App Server	Apache, Tomcat

AWARDS AND HONORS

Under graduate – First Rank award for COBOL Programming, 2007

Under graduate – First Rank award for Computer Graphics, 2007

Under graduate – First Rank award for Applied Physics, 2007

CAREER PROJECT

Website designed [www.annauniv.edu/CEST] for the Centre for Energy Storage Technologies (CEST), Anna University, Chennai, India.

(June 2022 - August 2022)

Website designed [www.ssivanesan.com] for the Director, Centre for Sponsored Research and Consultancy, Anna University, Chennai, India.

(August 2022 - October 2022)

DEGREE PROJECT

Masters	Web Development for Glisten technologies	April 2011
Masters	Insurance Management System	July 2009
Bachelors	E Banking and Mobile Banking	April 2008

TECHNICAL EXPERTISE

Network Security

- Network device backup recovery, Firewall, Antivirus
- Email security gateways, VPN Gateways, Proxy server
- Network Access Control (NAC)
- Network Load Balancer (NLB)
- Unified threat management

Cyber Security

- Application Security
- Network Security
- Information Security
- Disaster recovery planning
- End-ser security

VMware Virtualization

- Exsi, Oracle VM, VMware Server

Firewall

- Checkpoint firewall security
- Firewall security policy
- VPN Policy, Internet Access policy,
- Threat prevention policy, NAT policy

Cyber Security

- Application Security, Network Security
- Information Security, Disaster recovery planning
- Enduser security

Routing and Switching

- Cisco Switch & HPE configuration
- Firmware, MAC address binding
- Port security, SNMP configuration
- Telnet, SSH configuration
- VLANs trunks configuration

Windows/Linux Server

- Windows Server-Active directory domain control, RAID configuration
- Linux sever Fedora, Oracle Linux, Fedora, CentOS.

IT CONFERENCE/FDP/WORKSHOP/SEMINAR/ TRAINING DETAILS

1. Completed IT Professional Certification course in LAMP (Linux, Apache, MySQL, Php) organized by Bharathidasan University, Tiruchirappalli from 4th January 2010 to 31st April 2010.
2. Attended a four days' workshop on "Computer Hardware, software and secured social media aspects in Office Automation" held during 3rd-6th February 2016 in the Department of Information Technology, Sponsored by CEG, Anna University, Chennai.
3. Participated in the seminar on "An Overview of Internet of Things" organized by EMMRC, Anna University, Chennai on 6th January 2018.
4. Participated in the one-day workshop cum hands on session "Cloud based network management using MERAKI" organized by Anna University, Chennai on 3rd December 2018.
5. Participated in first International Conference on "Software Defined Networking" on 9th&10th April 2019 at Anna University, Chennai.
6. Completed Online Training course in Game Development using PyGame organized by Guvi, IITM, Chennai on 10th July 2020.
7. Completed micro learning course in Python for Data Science organized by Board Infinity on 12th July, 2020.
8. Completed online course in Network Security Fundamentals Organized by BitDegree on 15th July, 2020.
9. Attended the webinar on "Web Security" Organized by IEEE Computer Society, Kerala on 18th July, 2020.
10. Completed online course in Python on 21st July, 2020.
11. Completed online course in SQL fundamentals on 21st July, 2020.
12. Participated in the webinar on "Data Science" Organized by Panasonic on 25th Jul, 2020.

13. Attended the webinar on “Fighting Fraud – Cyber Security” Organized by IEEE Computer Society, Kerala on 27th July, 2020.
14. Attended the webinar on “COVID scams, state-sponsored scans, and app bans: Recent developments in Cyber Security” Organized by IEEE Computer Society, Kerala on 29th July, 2020.
15. Participated in 6 hours’ online program on “Virtualization and Cloud computing” organized by National Institute of Electronics & Information Technology, Calicut during 28th July, 2020 -30th July, 2020.
16. Completed 2 weeks’ online certificate course on “Python Programming” organized by National Institute of Electronics & Information Technology, Chennai during 20th August, 2020 -7th September, 2020.
17. Participated in the webinar on “Industrial Internet of Things (IoT)” organized by Anna University Chennai on 8th August 2020.
18. Attended in a webinar “Virtual Labs for Communications Systems using MATLAB & Simulink” organized by MathWorks on 20th August 2020.
19. Participated in the AICTE sponsored online short term training programme on “AICTE Sponsored STTP-Internet of Things (Everything)-Future” organized by B.S.Abdur Rahman, Crescent Institute, Chennai from 24th August, 2020 - 29th August, 2020.
20. Participated in the webinar on “Career Opportunities in Linux and Open Source Software” organized by B.S.Abdur Rahman, Crescent Institute, Chennai on 25th August, 2020.
21. Participated in the national webinar on “Interface between Artificial Intelligence and IPR in India” organized by Department of Legal Studies, University of Madras on 26th August, 2020.
22. Participated in a two days’ webinar on “IoT Security” organized by C-DAC, Hyderabad and Society for Electronic Transaction and Security, India, Chennai on 28th and 29th August, 2020.
23. Participated in the webinar on “Cyber Security Simplified” organized by School of Computer Information and Mathematical Sciences, B.S.Abdur Rahman, Crescent Institute, Chennai on 11th September 2020.

24. Completed 10 days training program on “Network and Networking Security” organized by Prompt Infotech, Coimbatore from 11th September 2020 to 20th September 2020.
25. Participated in the webinar on “Challenges of Emerging Pollutants in Water Management” organized by Nanyang Technological University, Singapore on 17th September 2020.
26. Participated in the webinar serious on “Math for Data Science” organized by School of Computer Information and Mathematical Sciences, B.S.Abdur Rahman, Crescent Institute, Chennai on 19th and 20th September 2020.
27. Attended in a webinar “Teaching Artificial Intelligence with MATLAB” organized by MathWorks on 22nd August 2020.
28. Participated in the AICTE sponsored online FDP programme on “Internet of Things” organized by Thiyagarajar College of Engineering, Madurai from 19th October 2020 to 23rd October, 2020.
29. Participated in the AICTE sponsored online FDP programme on “Design Challenges in VLSI and Embedded System for IOT Applications” organized by IIIT, Tiruchirappalli from 23rd November 2020 to 27th November 2020.
30. Participated in the AICTE sponsored online FDP programme on “Cyber Security” organized by Sri Venkateshwara College of Engineering, Sriperumbudur, Tamil Nadu from 30th November 2020 to 4th December 2020.
31. Participated in the AICTE sponsored online FDP programme on “Cyber Threat Intelligence and Digital Forensics” organized by Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat, India from 19th July 2021 to 23rd July 2021.
32. Participated in the online Short Course on “Relational Database Management Systems” organized by National Institute of Technical Teachers Training & Research, Chennai from 11th October 2021 to 13th October 2021.
33. Participated in the AICTE sponsored online FDP programme on “Advances in Cryptography using Quantum Computing” organized by Department of Information Science and Technology, CEG Campus, Anna University, Chennai, India from 22nd November 2021 to 26th November 2021.

PERSONAL DETAILS

Surname (as in passport)	Chitrael
Given Names (in full)	Moorthi Chitrael
Date of Birth & Age	10. 02.1988 & 36
Sex	Male
Country of Birth	India
Citizenship	Indian
Passport Details	Republic of India, U2971592 (Valid: 18.11.2030)
Mother Tongue	Tamil
Religion	Hindu
Name of Parents	Mr.P. Chitrael, Mrs.Nagammal.C
Marital Status	Married
Spouse	Mrs.M. Vijitha
Children	M.Padmashree, M.Abhinayashree
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LinkedIn	https://linkedin.com/in/moorthi-c
Languages Known	Tamil, English

PROFESSIONAL REFERENCES

- Dr.S.Sivanesan
Former Registrar
Anna University
- Professor (Retired)
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