

SUNIL BOOPALAN

Cloud and Cybersecurity Engineer

CONTACT

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Volunteering

 **Charter President** – Lions Club of Chennai

Anna Nagar Zoomers


Officer Title: Club President 2024-08

Official Title: Club President

Term: 18 Sep 2024 – 30 Jun 2026

Charter Date: 18 Sep 2024

District: 324 L, MD 324, CA 6 (India, South Asia & Middle East)

 **Leo Club Vice President** – Leo Club of Sterling Society

Officer Title: Leo Club Vice President - 20210701

Official Title: Leo Club Vice President

Term: 07 Sep 2024 – 30 Jun 2025

District: 324 L, MD 324, CA 6 (India, South Asia & Middle East)

- Led a Hunger Relief Initiative across 5 countries, collaborating with international Leo Clubs to conduct 100+ food distribution drives.
- Organized 15+ local events, impacting 2,000+ lives through health, youth, and environmental initiatives.

EDUCATION

2024 - 2026

MCA



SRM Institute Of Science And Technology,
Directorate of Online Education, Chennai,
Tamil Nadu, India.

CGPA - 9.22

2020 - 2023

BCA



SRM Institute Of Science And Technology,
Ramapuram, Chennai, Tamil Nadu, India.

CGPA - 8.31

2018 - 2020

12TH STD COMMERCE & MATHS



DAV Public School Sec-14, Faridabad, Haryana,
Delhi NCR, India.

2005 - 2018

CBSE 10TH STD



DAV Senior Secondary School, Mogappair, Chennai,
Tamil Nadu, India.

Standardized Test Scores

GMAT Focus Edition: 695 (98th percentile), 
Feb 2024

TOEFL iBT: 106, Dec 2024



Extracurricular Activities

- Ramp Walk Model:** Built confidence and presentation skills. 2023
- Chief Ambassador, Hospitality & Sponsorship:** Led event initiatives. (Campus Life - Student Council) 2023
- Volleyball Player:** Competed in DAV National Tournament. 2019

WORK EXPERIENCE

TATA COMMUNICATIONS LTD - NOVAMESH LTD

Cloud & Cybersecurity Engineer

June 2023 – Present | Chennai, India

Employment Transfer: Transferred to Novamesh Ltd, a subsidiary of Tata Communications Ltd, on 1st April 2024.



- Managed firewall operations across FortiGate, Palo Alto, Check Point, Cisco ASA/FMC, and AWS Firewall, ensuring secure, stable, and optimized network access control for over 350+ customer assets.
- Configured and integrated threat intelligence feeds including Threat Feeds (FortiGate), External Dynamic Lists (Palo Alto), and Custom Intelligence Feeds (Check Point), enabling one-click deployment of IOC-based IP blocking across all customer firewalls.
- Led the first Check Point firewall upgrade in the team, setting a blueprint for future upgrades and migrations.
- Developed Ansible-based automation for firewall tasks, significantly reducing manual effort and enhancing deployment speed.
- Integrated AIOps via Cloud Fabric, driving predictive monitoring and proactive incident management across hybrid environments.
- Worked with TAC to mitigate CVEs and address findings from VAPT reports, strengthening security posture.
- Conducted policy optimization, cleanup of unused/overlapping rules, and regular hygiene activities across firewalls.
- Supported firewall migration initiatives and worked with Zabbix for monitoring and performance visibility from a firewall lens.
- Maintained professional customer communications via email and managed incidents/changes using ServiceNow.
- Took a macro approach to SLA management, implementing process improvements that led to consistent 100% SLA compliance.
- Delivered a few Knowledge Transfer sessions to share automation techniques and configuration standards with the team.

Key Achievements:

- Deployed centralized threat feed automation for 350+ assets, enabling real-time IOC updates across FortiGate, Palo Alto, and Check Point firewalls.
- Awarded Best Performer for multiple consecutive months for leadership in automation and security operations.
- Improved ticket resolution SLA from 94% to 100% through proactive validation and root cause tracking.
- Recognized for automating key workflows, saving ~30% of manual effort per month.

RESEARCH PUBLICATIONS

Title: Synergistic Solutions for Cloud Cybersecurity and Financial Operations using AI, Blockchain, and Quantum Computing

Author: Sunil Boopalan

Conference: IEEE CYBERCOM 2024 | **Location & Date:** Dehradun, India. (15–16 Nov 2024)

DOI: [10.1109/CYBERCOM63683.2024.10803251](https://doi.org/10.1109/CYBERCOM63683.2024.10803251)

IEEE Xplore: Published on 23 Dec 2024



Title: Efficient and Precise CNN-Based Machine Learning Method for Microwave Medical Imaging in Cancer Detection

First Author: Sunil Boopalan | **Co-Authors:** S. Sameer; K.V. Vaseekaran; R. Rishi

Conference: IEEE ICIICS 2024 | **Location & Date:** Kalaburagi, India (22–23 Nov 2024)

DOI: [10.1109/ICIICS63763.2024.10859575](https://doi.org/10.1109/ICIICS63763.2024.10859575)

IEEE Xplore: Published on 5 Feb 2025



CERTIFICATIONS & INTERNSHIPS

LEADERSHIP COURSES (COURSERA): CONNECTED LEADERSHIP – YALE UNIVERSITY; LEADERSHIP SKILLS – IIM AHMEDABAD

March 9, 2025 | Online



Developed leadership capabilities by studying key concepts like trust, influence, and authentic leadership from Yale, and enhancing team management, communication, and decision-making skills through IIM Ahmedabad's course.

FORTINET NSE 1, 2 & 3 – NETWORK SECURITY EXPERT PROGRAM

July 18, 2023 | Online



Built foundational to intermediate knowledge of network security and Fortinet solutions. Gained awareness of the cybersecurity threat landscape (NSE 1) and Fortinet's Security Fabric (NSE 2). Explored key Fortinet products, including FortiGate firewalls, FortiAnalyzer, and FortiManager (NSE 3). Developed skills to secure network environments using Fortinet technologies.



CCNA 200-301 – CISCO CERTIFIED NETWORK ASSOCIATE (CSCO14500776)

November 5, 2023 | Online

Developed a strong foundation in networking fundamentals, including IP addressing, subnetting, VLANs, switching concepts, and routing. Gained hands-on experience configuring Cisco routers and switches using CLI, troubleshooting network issues, and applying basic security principles. Acquired skills in network topologies, routing protocols, and supporting small to medium-sized enterprise network infrastructures.

IBM AI ENGINEERING PROFESSIONAL - COURSERA

December 28, 2021 | Online



Gained hands-on experience in machine learning, deep learning, and neural networks. Implemented supervised and unsupervised ML algorithms (classification, regression, clustering, dimensionality reduction) using SciPy and Scikit-learn. Built deep learning models and neural networks with frameworks like Keras, PyTorch, and TensorFlow.

IBM DATA SCIENCE PROFESSIONAL - COURSERA

December 27, 2021 | Online



Learned the fundamentals of data science, including data scientist roles, methodologies, and workflows. Gained hands-on experience with Python, data cleaning, analysis, visualization, and building machine learning models. Utilized tools and libraries such as Pandas, Matplotlib, and Scikit-learn to create machine learning pipelines and complete a data science project with a published report.

PYTHON INTERNSHIP - DLK CAREER DEVELOPMENT

Jun 2022 – Jul 2022 | Chennai

Enabled learning and hands-on experience in Python, covering its basics, industrial relevance, and applications in Artificial Intelligence, Machine Learning, and Deep Learning. Explored ML algorithms like K-Nearest Neighbors (KNN) for classification, and implemented a simple KNN-based project using the Scikit-learn library.

PROJECTS

MUSIC RECOMMENDATION BOT

An unsupervised learning model which analyses playlists and gives recommendations. Dataset used is FMA (Free Music Archives - A Dataset For Music Analysis). Algorithm primarily used is K-means clustering.

FOR MORE PROJECTS CHECK OUT [HTTPS://GITHUB.COM/SUNILBOOPALAN](https://github.com/sunilboopalan)