

Subramanian Venkatachalam

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EDUCATION

University of Maryland, A. James Clark School of Engineering
M.Eng Cybersecurity, CGPA (3.95/4.0)

College Park, MD, USA
May 2025

Courses:

Hacking of C and Unix Binaries, Cloud Security, Networks and Protocols, Secure Operating Systems, Security tools for information security, Information Assurance, Digital Forensics and Incidence Responses, Virtualization and Container Technologies, Penetration Testing

Vellore Institute of Technology

B.Tech Electrical and Electronics Engineering, CGPA (8.4/10)

Chennai, Tamil Nadu, India

June 2021

TECHNICAL SKILLS

Programming Languages: C, C++, Bash, Python

Operating Systems: Linux, Windows

Tools: GIT, GitHub, Wireshark, vim, Microsoft office suite

Cloud Services: AWS - EC2, S3, RDS, Lambda

PROJECTS

Securing a Cloud-Based Healthcare Application

- Needed to assess the security vulnerabilities in a healthcare company's AWS cloud infrastructure. Based on the findings, created a vulnerability assessment report.
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WORK EXPERIENCE

Wipro Limited

Software Developer

Bangalore, Karnataka, India

July 2021 - July 2023

- Worked extensively on Cisco NXOS software deployed across Nexus N9K, N7K, and N5K devices, focusing on debugging and fixing software bugs and customer found defects.
 - Demonstrated proficiency in L2 switching protocols and took ownership of all bugs originating in a specific component, showcasing a strong troubleshooting and debugging ability.
 - Engaged in resolving multiple customer-reported defects, debugging live nodes, and devising temporary workarounds while developing permanent fixes.
 - Played a pivotal role in uprev of yang files, openconfig, netconf, gRPC, and gNMI, showing expertise in the programmability component of Nexus N9K.
 - Developed automation tools using bash scripting, reducing device configuration time.
 - Developed a tool written in bash that automates the compilation of code changes, streamlining the build process and enhancing efficiency.
 - Utilized GIT version control extensively to manage code repositories and versions.
 - Contributed to feature enhancements, including renaming CLI commands and implementing backend functionality improvements.
 - Took charge of fixing infra and manageability component issues on Nexus switches, showcasing a proactive approach to problem-solving.
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LEADERSHIP AND VOLUNTEER EXPERIENCE

VITEACH student organization

November 2018 - April 2019

- Student teacher at VITEACH student organization. Taught Mathematics and English to underprivileged children at a government school. Conducted activities and events for them.
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