

Sukanya Sudhir Shete

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Summary

MSCS student and **Software Engineer** with around 3 years of experience in **software development, Linux programming, Python** and **C** applications, including work on networking systems. Skilled in debugging, **Git, Jira** and **system-level programming** with hands-on experience in designing, implementing and automating features. Experienced in **improving code quality, operational efficiency and maintainability**. Seeking Software Engineering Internship (Summer 2026) to apply technical skills in **software development, problem solving and system programming**.

Education

Northeastern University, Boston

Sept 2025 - Present

MS in Computer Science | GPA: 3.83 /4.0

Relevant Coursework: Programming Design Paradigms, Database Management Systems

Government Engineering College, Barton Hill, Thiruvananthapuram

Jun 2018 - Jul 2022

Bachelor of Technology(Hons.) in Information Technology | GPA: 9.26 /10

Technical Skills

Programming Languages: C, C++, Java, Python, PHP, HTML, CSS, JavaScript

Network Protocols: TCP/IP, UDP, DNS, DHCP, HTTP/HTTPS, BGP, OSPF, EIGRP, RIP, VLAN, STP, SNMP

Databases: MySQL, Firebase

Tools & Systems: Git, Bitbucket, Linux, GDB, Jira, Vim, Shell Scripting, Wireshark, Spirent Test Center, Confluence

Software Development: feature implementation, debugging, code reviews, static analysis, automation, Agile

Professional Experience

Software Engineer — Ruckus Networks, CommScope

Aug 2022 - Jul 2025

- Developed a **Python/Linux time-based scheduling feature** for network switches, automating activation/deactivation of configuration commands by day/hour profiles, **cutting manual intervention by 40%** and **reducing power usage**.
- **Debugged** networking bugs using **Linux CLI tools, GDB**, and **system logs**; Enhanced **logging and diagnostic hooks** to **improve observability** and **reduce mean time to resolution**.
- Resolved **300+ Coverity static analysis** issues in C code, **improving** code quality, maintainability, and compliance across **critical networking components**.
- Authored and updated configuration guides and feature descriptions using **internal tooling**, ensuring **accurate technical communication** across engineering and QA teams.
- Owned end-to-end feature development, incorporating **testing** and **Agile practices** to deliver reliable software.

Projects

Sentiment-Based Text Recommender

- Developed an LSTM-based next-word prediction system using Python and TensorFlow/Keras, generating context-aware and emotionally coherent suggestions.
- Applied NLP techniques and integrated sentiment-based linguistic features to improve emotional alignment in model generated text.

Prescription Management System

- Designed a centralized digital health record platform with Firebase, enabling secure cross-hospital medical history access and automated record retrieval.
- Implemented rule-based validation for harmful drug interactions and incorrect dosages, enhancing patient safety.
- Integrated UIDAI-linked authentication with role-based access control for secure multi-user access and data protection.

Extracurricular Activities

Women in Computing (WiC) Head — IEEE Computer Society, GECBH Chapter

- Promoted from volunteer to chapter head for leadership and technical event execution.
- Organized and led workshops, outreach programs, and student initiatives, handling logistics and team coordination.
- Contributed to the chapter receiving "Best Emerging Student Branch" award at the state level IEEE CS meet.