

Krishna Sathyamurthy

krishna.sl@rutgers.edu | <https://github.com/krshsl> | +1-732-207-6820 | New Jersey

Summary

I am a Computer Science graduate student at Rutgers University. I have four years of experience as a software development engineer working on a security product at a prominent Indian unicorn startup. I am eager to secure a software developer internship at your company for the summer of 2025 and learn from your talented pool of engineers.

Experience

Rutgers University

New Brunswick, New Jersey

Part Time Lecturer (PTL) - Intro to AI (CS440)

September 2024 – December 2024 (Anticipated)

- Designed and delivered lectures and provided individual feedback to develop students' understanding of complex topics.
- Mentoring final-year undergraduate students on academic projects and career guidance in AI.

Zoho Corporation

Chennai, India

Senior Software Development Engineer

October 2022 – December 2023

- Led a team of five talented individuals to migrate the SOAR (Security Orchestration, Automation, and Response) framework from the webserver to an agent, enabling cloud product support projected to increase profits by 100%.
- Designed a database for a new feature with a focus on scalability and ensured the seamless migration of the existing database to the new design during version upgrades without any errors.
- Built a universal password management modular UI design to support the management of passwords from different vendor types.

Software Development Engineer

July 2020 - October 2022

- Overhauled the Log Collection module, which helped in introducing new features faster and resulting in shorter release cycles.
- Migrated the SNMP framework from the web server to a portable agent and upgraded it to the latest version, thereby supporting the secure transmission of critical information and achieving an impressive 39x increase in performance.
- Identified and resolved critical failures during product upgrades, protecting crucial data from loss and preventing critical servers from experiencing downtime ranging from a few hours to several days.

Software Development Engineer - Trainee

January 2020 - July 2020

- Overhauled the Help Documentation by introducing a search results toolbar, increasing customer engagement metrics by 20%.
- Developed a new software to generate PDF files from Help Documents for all the security products offered by the organization for marketing purposes.

Projects

Operating System Projects:

- Developed a thread-safe user-level thread library that supports round-robin and MLFQ implementation to handle the tasks in parallel while emulating concurrency.
- Developed a user-level memory management tool that works like malloc and supports various architectures and multiple levels of memory fragmentation.
- Developed a file system manager using the FUSE library capable of handling multiple file and directory types using indirect blocks to store related data.

Education

Rutgers University

New Brunswick, NJ

Master of Science in Computer Science; GPA: 3.875

January 2024 – December 2025 (Anticipated)

Relevant Courses: OS, Computer Networks, Database Systems, Data Structures & Algorithms

Sastra University

Thanjavur, India

Bachelor of Technology in Mechanical Engineering

July 2016 – June 2020

Programming Skills

Programming Languages: C/C++, Java, Python, R-Programming

Web Technologies: Javascript, HTML, CSS, Ember.js, 11ty, RESTful API Development, React

Databases, Tools & Frameworks: Docker, Git, Mercurial, MySQL, PostgreSQL, MongoDB, Kubernetes, Bash, Powershell

Other: Machine Learning, Version Control, Performance Tuning and Optimization, Agile