

Ajith Kumar MS

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Summary

Versatile engineer with a passion for Java stack, operating systems, and cybersecurity. Proficient in Linux operating systems and system administration with a flair for solving technical problems with a strong interest in system automation, system optimization, and open source technologies. Skilled using dockers for containerization and streamlining development. Enjoys writing scripts to automate tasks, improve work flows and web development.

Education

JSS Academy Of Technical Education Bangalore, B.Tech in Computer Science 2022 – 2026

- 6th Semester (Persuing)
- **Coursework:** Operating Systems, Automata theory, Data Structures and Algorithms, Algorithm Analysis

Experience

Python Development, Octanet Feb 2024 - Apr 2024

- Developed a secure banking application using Python fundamentals, ensuring data integrity and privacy.
- Designed and implemented atomic-level transactions to ensure consistency and isolation of requests with Flask framework to host the application
- Integrated user authentication and authorization mechanisms, ensuring secure access to sensitive data.
- Employed encryption techniques for data security, including password hashing and cryptographic data transmission.
- Implemented error handling and logging features to ensure smooth operation and easy debugging in production.

Projects

Automated script for Broadcom wireless drivers [Link to Github](#)

- Focuses on how to sign BCM drivers or Broadcom drivers cryptographically via secure boot in Linux based distributions
- Tools Used: Bash, Shell scripting and Git

Byte-Bound [Link to Github](#)

- A 2D adventure game developed from scratch in Java. Explore a vibrant, pixelated world, solve puzzles, and face off against challenging enemies in this retro-inspired journey tailored with handcrafted levels and experience
- Tools Used: Java, JavaSwing GUI, Eclipse IDE and Git
- Future Developments: JavaFx, Java Sockets and SLF4J

Event Scrappy [Link to Github](#)

- Uses Selenium WebDriver to scrape out recent technical meetups. Stores all these events in an SQLite3 database through the JDBC driver. Using multithreading for mass data collection
- Tools Used: JDBC, SeleniumWebDriver, Maven, SQLite3, SLF4J and IntelliJ IDEA
- Future Development: Virtual Threads, JavaFx and Headerless Drivers

Journal App Spring [Link to Github](#)

- Complete end to end project with authentication, caching and logging features
- Tools Used: Java, Spring boot, MongoDB, Redis, JUnit5, Mockito, SLF4J, Spring Security, Maven and Git
- Future Development: Apache Kafka, KushoAI, Swagger, JWT and SonarCloud

Certifications

1st Place in Codechef platform	Mar 2024
Certificate	
Research Paper On KLE's Law A pathway to Innovation	Nov 2023
Certificate	

Technologies

Languages: C, Java, Shell Scripting, Python and JavaScript

Technologies: Git, SQL, PL-SQL, Interface Builder, IntelliJ Idea and Python

Build Tools: Maven, Gradle and Pip

Containerization: Toolbox, Docker, Podman

Operating Systems: Red Hat Based Linux, Arch Linux and Debian Based Linux and Windows