

Ayush Kumar Shaw

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SKILLS

LANGUAGES

Java • HTML • CSS • Javascript
• C • C++ • Python • Shell • SQL

FRAMEWORKS

Spring • Spring Boot

TOOLS

Git • GitHub • GitLab • Mockito
• JUnit • Apache Tomcat • LaTeX
• jQuery • JDBC • Gradle • Wireshark
• Postman • IntelliJ IDEA • VSCode
• Eclipse • Sublime Text

DBMS

Oracle • MySQL • MongoDB

PLATFORMS

Linux • GCP

SOFT SKILLS

Leadership • Writing

LINKS

LinkedIn:// ayush-shaw
GitHub:// Ak-Shaw

EDUCATION

BGI - SDET

B. TECH IN COMPUTER SCIENCE
AND ENGINEERING

June 2021 | West Bengal, India
Cum. GPA: 8.98 / 10.0

COURSEWORK

UNDERGRADUATE

Database Management System
Computer Networks
Operating Systems
Object Oriented Programming
Data Structures & Algorithms
Design & Analysis of Algorithms
Digital Electronics
Discrete Mathematics
Computer Organisation
Computer Architecture

EXPERIENCE

CRIO.DO | STUDENT DEVELOPER (CRIO LAUNCH PLUS 2020)

Apr 2020 - Aug 2020 | Remote

Contributed to a scalable distributed back-end of a food ordering application and constructed APIs for a quiz application.

CRIO.DO | STUDENT DEVELOPER (CRIO LAUNCH 2020)

Feb 2020 - Apr 2020 | Remote

Contributed to these projects: a secure file-sharing service, a visual stock portfolio analyzer, and an online IDE.

Portfolio showcasing contributions: criodo.github.io/portfolio-ayushshawz/

PROJECTS

VISUAL STOCK PORTFOLIO ANALYZER

Mar 2020 – Apr 2020 | Guided Individual Project

- Stock quote services were addressed via **REST APIs**.
- **Refactored** code to adapt to an **updated interface contract** published by the back-end team.
- Brought **comprehensive error reporting** and better **exception handling** into picture, which further **improved application stability**.
- **Multi-threading** was introduced to improve application responsiveness.
- **JAR** publication of the portfolio manager library was concluded.

SECURE FILE-SHARING SERVICE

Feb 2020 – Apr 2020 | Guided Individual Project

- Implemented a **pre-installation script** that **validated the minimum system requirements** to be met for the customised **VSFTPD** server installation. The script checked the **availability** of required **processor, memory, disk space**, and **OS version**.
- **Identified regressions** in newer versions of the server.
- Performance issues were debugged by **monitoring the memory usage, cpu usage, file transfer speed**, and **file permission issues**.
- Analyzed collected **pcap** files using **Wireshark** to troubleshoot the following network issues: **TCP retransmissions, connection refusals, dropped connections, sub-optimal TCP window sizes** and **retransmission delays**.
- Created **SSL** certificates to enable end-to-end encryption.
- In order to **ensure encryption**, snooped the network traffic using **Wireshark**.

FOOD ORDERING APPLICATION

Jan 2020 – Aug 2020 | Guided Individual Project

- Adapted **Spring Boot** for building a distributed **Java** back-end.
- Adhered to **MVCS** layering.
- **MongoDB** aided storage, from which a list of nearby restaurants was retrieved, based on user location.
- Implemented a simple **REST API** and the corresponding request handler and response methods.
- Code reliability was demonstrated, utilizing **JUnit** and **Mockito** behind the scenes.
- Executed Facebook Share API, Pinterest Share API, and Clarifai API.