Ayush Kumar Shaw

linkedin.com/in/ayush-shaw/
ayushshawz@gmail.com | +91 98312-84491

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 | Software Engineer (Content) - Intern
Nov 2020 | Remote

CRIO.DO | Student Developer (Crio Launch Plus 2020) - Trainee
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) - Trainee
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 as a student developer:
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.