STEVE LIU

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EDUCATION

Northeastern University   Sep 2020 – May 2024
Candidate for Bachelor of Science in Computer Science, Minor in Mathematics   *Boston, MA*

- **GPA:** 3.83 / 4.00
- **Honors:** Dean's List (all semesters)
- **Relevant Coursework:** Fundamentals of Software Engineering, Algorithms and Data Structures, Web Development, Object Oriented Design, Database Design, Computer Systems, Programming in C++, Linear Algebra, Probability and Statistics

EXPERIENCE

Incoming Software Development Engineer Intern   Jun 2023 – Sep 2023
Amazon   *Bellevue, WA*

Software Engineer Co-op   Jan 2023 – Jun 2023
Fidelity Investments   *Boston, MA*

- Implemented the framework for a new service that enables over 5 million users to securely authenticate crypto wallet addresses for asset deposits using Java, Docker, PostgreSQL, AWS SQS/SNS, and Spring Boot
- Enhanced an internal admin API utilizing SQL audit tables to allow developers to replay builds from its last failed state, resulting in a 20% reduction in debugging time for deployment errors
- Developed unit and integration tests in JUnit using Mockito, MockServer, and Spring WebTestClient, fully ensuring at least 90% code coverage across multiple DAOs and services

QA Automation Co-op   Jan 2022 – Jul 2022
MFS Investment Management   *Boston, MA*

- Automated smoke and regression testing to support the release of a new investment portfolio management software by developing Python scripts in TestComplete, significantly reducing average testing time by 84%
- Developed a tracking system using Java, MS SQL, and YAML to validate over 100 internal frontend and backend components, ensuring consistency across deployment platforms by using JSON data from tools such as uDeploy, Sonar, and Jenkins
- Deployed over 20 new features and optimizations to existing automation libraries through a Jenkins CI/CD pipeline

Lead Teaching Assistant – Fundamentals of Computer Science I   Sep 2021 – Dec 2021, Sep 2022 – Dec 2022
Northeastern University   *Boston, MA*

- Facilitated office hours for over 800 introductory computer science students to teach fundamental concepts such as recursion, algorithms and data structures, and patterns for designing programs using Racket ISL
- Managed course logistics and instructed 35+ students in a weekly lab

PROJECTS

Bookworm | *MongoDB, Express.js, React.js, Node.js, Redux, Bootstrap*   Nov 2022 – Dec 2022

- Implemented a robust RESTful backend web service for an online book cataloging platform using Node.js, Express.js, MongoDB, and Heroku
- Integrates the Google Books API to pull and summarize data for over 100,000 books and authors
- Programmed a responsive Single Page Application frontend using React.js, Redux, and Bootstrap to allow users to manage and update their own reviews, books, and reading lists

Image Processor | *Java, JUnit, Swing*   Jun 2021 – Jul 2021

- Built a GUI based image processor in Java using the standard Swing library with functionality to sharpen, blur, and apply filters such as grayscale and sepia to imported and procedurally generated images
- Applies design patterns such as model-view-controller, command, and decorator to maintain a flexible and efficient code base, enabling scalability for any potential new features

TECHNICAL SKILLS

Languages: Java, Python, TypeScript/JavaScript, HTML/CSS, C, C++, SQL, Racket/Lisp

Libraries/Frameworks: React.js, Node.js, Spring Boot, Express.js, Redux, MongoDB, Jest, JUnit, Mockito

Developer Tools: Docker, Postman, Git, Jenkins, Jira, Heroku, Netlify, TestComplete