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*

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

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

- Supported the release of a new investment portfolio management software by developing Python scripts for automated smoke and regression testing 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, NexusIQ, and Jenkins
- Collaborated in Agile development by participating in scrum meetings, tracking progress through user stories on Jira, contributing in code reviews, and documenting code changes on Confluence
- 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 2022 – Dec 2022
Northeastern University   *Boston, MA*

- Moved to a Lead TA role with additional responsibilities to manage course logistics and instruct 35+ students in lab

Teaching Assistant – Fundamentals of Computer Science I   Sep 2021 – Dec 2021
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
- Assisted lead TAs in weekly labs and graded/provided feedback for students' exams, projects, and assignments

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, Express.js, Redux, Jest, MongoDB, Spring Boot, Bootstrap, Chakra, JUnit

Developer Tools: Linux, JetBrains IDEs, VS Code, Postman, Git, Jenkins, Jira, Heroku, Netlify, TestComplete