

# STEVE LIU

617-987-5436 ▪ BOSTON, MA

liu.steve@northeastern.edu ▪ linkedin.com/in/steveliu2 ▪ github.com/steveliu22 ▪ steveliu22.github.io/Steve-Liu

## 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 weekly labs

## 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