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**: 3.79 / 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++, Probability and Statistics

EXPERIENCE

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

- Accepted offer to work with the Digital Assets team to deliver cryptocurrency services, storing, and trading

QA Automation Co-op | *Java, Python, SQL, YAML*   **Jan 2022 – July 2022**
MFS Investment Management   *Boston, MA*

- Automated smoke and regression testing for the company's investment portfolio management software by developing Python scripts in TestComplete to reduce average testing time by 84%
- Programmed a tracking system to validate over 200 frontend and backend components to ensure consistency across software deployment platforms by mapping JSON data pulled from uDeploy, SonarQube, NexusIQ, and Jenkins
- Deployed over 20 new features and optimizations to existing automation libraries through a Jenkins CI/CD pipeline
- Worked in an Agile environment by attending scrum meetings, creating and tracking issues through user stories on JIRA, participating in code reviews, and documenting code changes on Confluence

Lead Teaching Assistant CS2500 | *Racket*   **Sep 2022 – Current**
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 CS2500 | *Racket*   **Sep 2021 – Dec 2021**
Northeastern University   *Boston, MA*

- Hosted office hours open to over 800 introductory computer science students to teach fundamental concepts such as recursion, algorithms and data structures, and patterns for designing programs
- Assisted lead TAs in weekly labs and graded/provided feedback for students' exams, projects, and assignments

PROJECTS

Video Sharing Platform | *Java, SQL, JavaScript, React.js, HTML5/CSS*   **Nov 2021 – Dec 2021**

- Built a Spring RESTful web service for a mock video sharing platform using the JDBC and Java Persistence APIs to communicate with a backend MySQL database
- Programmed a front-end UI using the React.js library to allow users to create, modify, and/or delete their own channels, videos, and comments

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

- Developed 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, HTML5/CSS, C, C++, SQL, Racket, Bash

Software: Linux, JetBrains IDEs, VS Code, Postman, Git, TestComplete, Jenkins, MySQL, JIRA

Libraries/Frameworks: React.js, Jest, jQuery, Bootstrap, Node.js, Spring Boot, JUnit