

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

QA Automation Co-op | Java, SQL, Python, YAML

Jan 2022 – Jul 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%
- Developed 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

Khoury College of Computer Science

Boston, MA

- Promoted to Lead TA with additional responsibilities to manage and teach 35+ students in lab

Teaching Assistant CS2500 | Racket

Sep 2021 – Dec 2021

Khoury College of Computer Science

Boston, MA

- Hosted weekly office hours open to over 800 introductory computer science students to teach fundamental concepts such as recursion, data structures, and patterns for designing programs
- Graded and provided feedback for students' exams, projects, and assignments
- Worked and maintained constant communication with a team of over 100 other course assistants

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

Maze Solver | Java

May 2021

- Implemented Kruskal's MST and BFS/DFS pathfinding algorithms to build a custom random maze generator/solver

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, TestNG