STEVE LIU

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EDUCATION

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

- **GPA**: 3.78 / 4.00
- **Honors:** Dean's List (all semesters)
- **Relevant Coursework:** Algorithms and Data, Object Oriented Design, Database Design, Computer Systems, Fundamentals of Computer Science 1 & 2, Logic and Computation, Linear Algebra, Discrete Structures

EXPERIENCE

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

- Developed a software tracking system using Java, YAML, and SQL to validate over 200 web service and front-end components by creating YAML mappings to relate JSON data pulled from uDeploy, SonarQube, NexusIQ, and Jenkins
- Created Python scripts using TestComplete to automate UI based smoke and regression test cases for the investment systems development team, reducing average testing time by 84%
- Deployed over 20 new features and optimizations to existing automation libraries through a Jenkins CI/CD pipeline
- Gained extensive exposure to working 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

Fundamentals of Computer Science 1 Teaching Assistant   Sept. 2021 – Dec. 2021
Khoury College of Computer Science   *Boston, MA*

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

PROJECTS

Video Sharing Platform | *React.js, JavaScript, HTML5/CSS, SQL, Java*   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*   June 2021 – July 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 minimum spanning tree algorithm to build a custom random maze generator
- Allows users the capability to manually traverse the maze or automate the solution using depth or breadth first search

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML5/CSS, C, SQL, Racket, Bash

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

Libraries/Frameworks: React.js, Node.js, Spring Boot, Java Swing, JUnit, TestNG