STEVE LIU

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EDUCATION

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

- **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

RELEVANT EXPERIENCE

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

- Utilized Postman, TestNG, and the Apache POI library to automate a weekly summaries report documenting application security vulnerabilities using JSON data pulled from RESTful API calls
- Attended weekly software security meetings and gained exposure to the process of DevSecOps as well as a high-level overview of design and testing protocols to minimize and detect code vulnerabilities
- Developed Python scripts using TestComplete to automate manual smoke and regression test cases

Khoury College of Computer Sciences - Boston, MA   **Sept. 2021 – Dec. 2021**
CS2500 Teaching Assistant

- 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 Platform Database Editor with UI   **Nov. 2021 – Dec. 2021**
Database Design

- A relational database editor for a video sharing platform created with SQL and Java utilizing the JDBC API and Spring Boot to process and host server-side user queries and transactions directly to the database
- Fully supports CRUD operations through the dynamically rendered front-end UI built using HTML/CSS, JavaScript, and the React.js library

Image Editing Application   **June 2021 – July 2021**
Object-Oriented Design

- GUI based image editor built 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, JavaScript, Python, HTML/CSS, C, SQL, Racket, Bash, x86 Assembly

Software: IntelliJ IDEA, Eclipse IDE, VS Code, PyCharm, Postman, Git, Bitbucket, Jenkins, MySQL, Jira, Emacs

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

OS: Windows, Linux