STEVE LIU

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EDUCATION

Northeastern University, Khoury College of Computer Sciences　　　　　　　　　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

RELEVANT EXPERIENCE

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

- Created an application tracking tool in **Java** using **JDBC**, **Gson**, **Unirest**, and **SnakeYAML** to validate and relate over 300 application components and microservices across 6 software deployment and security platforms
- Developed **Python** scripts using **TestComplete** to automate manual smoke and regression test cases for scrum teams, reducing average testing time by 84%
- Utilized **Postman**, **Jenkins**, and the **Apache POI** library to create a weekly-run metrics job that summarized security vulnerabilities for over 80 internal applications using **JSON** data pulled from Contrast **REST API** calls
- Researched and documented over 25 **OWASP** penetration test cases in **JIRA** for weekly software security meetings

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 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 Boo**t 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: Linux, IntelliJ IDEA, Eclipse IDE, VS Code, PyCharm, Postman, Git, Bitbucket, Jenkins, MySQL, JIRA, Emacs

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