# 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 - Present
*MFS Investment Management*        *Boston, MA*

- Created an application tracking tool in **Java** using **JDBC**, **Apache POI**, **Gson**, and **SnakeYAML** to validate and relate over 300 components and microservices across five developer and security platforms like **Jenkins** and **SonarQube**
- Developed **Python** scripts using **TestComplete** to automate manual smoke and regression test cases for scrum teams
- Utilized **Postman**, **Jenkins**, and the **Apache POI** library to create a metrics job that summarized internal code vulnerabilities for over 80 applications using **JSON** data pulled from **RESTful API** calls
- Researched and documented **OWASP** penetration test cases in Confluence 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 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