

# STEVE LIU

617-987-5436 • BOSTON, MA

liu.steve@northeastern.edu • linkedin.com/in/steveliu2/ • github.com/steveliu22 • steveliu22.github.io/Steve-Liu/

## EDUCATION

---

### Northeastern University

*Candidate for Bachelor of Science in Computer Science, Minor in Mathematics*

**Sept. 2020 – May 2024**

*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 EXPERIENCES

---

### QA Automation Co-op

*MFS Investment Management*

**Jan. 2022 – July 2022**

*Boston, MA*

- Created an **API-based** 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

*Khoury College of Computer Science*

**Sept. 2021 – Dec. 2021**

*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

*Database Design*

**Nov. 2021 – Dec. 2021**

- A relational database editor for a mock 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

*Object-Oriented Design*

**June 2021 – July 2021**

- 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, Python, JavaScript, HTML/CSS, C, SQL, Racket, Bash

**Software:** Linux, JetBrains IDEs, VS Code, Postman, Git, Bitbucket, Jenkins, MySQL, JIRA, Emacs

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