

Jalen Wu

wu.jal@northeastern.edu | 347-585-1620 | <https://www.linkedin.com/in/jalen-wu> | <https://github.com/Jalen1>

EDUCATION

Northeastern University, Boston, MA

Sept. 2021 - May 2025

Khoury College of Computer Sciences

GPA: 3.5/4.0

Candidate for Bachelor of Science in Computer Science

Relevant Coursework: Object-Oriented Design, Software Engineering, Computer Systems, Database Design, Algorithms and Data, Mathematics of Data Models, Discrete Structures, Data Science, Cybersecurity

Activities: Resident Assistant, HackBeanpot Inc., Oasis Software Development Club

SKILLS

Languages: Java, C, C#, HTML/CSS, Python, TypeScript, SQL, Assembly

Tools & Frameworks: Git, Spring Boot, Node.js, React, Tailwind, Next.js, Expo.io, Firebase, Postgres

WORK EXPERIENCE

Symbolic

Wilmington, MA

Software Engineer Intern

Incoming May 2024

The Travelers Companies, Inc.

Hartford, CT

Software Engineer Intern

January 2023 - June 2023

- Developed a user-friendly test execution UI in an Agile environment leveraging React to fetch software test results from company APIs, enhancing coordination between offshore and on-site QA Engineers on user stories.
- Integrated a React-based onboarding application with other interns, practicing test-driven development and code reviews to produce a forum that could store and display user comments.
- Automated SQL query construction by building Python scripts to extract, transform, and load data from Snowflake and SQL Server databases to deliver business data to other teams.

PROJECTS

ToDo Chart – Java, Spring Boot, PostgreSQL, Postman, Git

March 2024

- Designed a todo list application in Java that handles HTTP requests to add, delete, and modify tasks.
- Leveraged Spring Boot to employ dependency injection in the Java model, handle user requests from the application controller, and configure application endpoints in a web environment.
- Deployed Java Persistence API to map Java objects to a PostgreSQL database on the data layer.
- Employed Postman and Postgres Bash to test create, read, update, and delete functionality of endpoints.

Poqua (HackBeanpot 2024 Winner) – React Native, Google Firebase, Expo.io, Git

February 2024

- Developed a cross-platform mobile application in an Expo.io environment that visualizes metrics such as water quality, temperature, and light levels for users to check on the status of their fish tanks from their phones as well as add information about fish they own.
- Leveraged a Javascript backend to fetch and write data from a Fish Species API to a Firebase collection that can be accessed to display information about the user's fish.
- Utilized React Native on the frontend to render component animations and handle user requests to deliver a responsive and visually appealing user interface.

File System – C, Linux, Makefile, Vim, Git

December 2023

- Developed a file system driver in C that mounts a 1024-kilobyte disk image to add, delete, and modify files and directories in a Linux environment.
- Architected a disk structure that consisted of bitmaps for efficient memory tracking and inode structures to store file metadata with pointers to raw file data.
- Implemented read and write functions allowing the user to transfer data between the disk and a buffer.