# Alan Zhan

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Available: May-Dec 2023
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## EDUCATION

**Northeastern University** | Khoury College of Computer Sciences  **2021-2025**

*Bachelor of Science in Computer Science and Business Administration*   Minor: Data Science   GPA: **3.5**/4.0

- **Relevant Coursework**: Data Structures and Algorithms, Object Oriented Programming, Computer Systems, Database Design, Discrete Structures, Web Development, Fundamentals of Computer Science.

## SKILLS

- **Languages**: Java, Python, JavaScript, Typescript, SQL, C, C#, R, HTML/CSS, MIPS Assembly language
- **Frameworks**: React, Node.js, Three.js, Vite.js, Swing
- **Tools**: Git, UNIX Command Line, Slack, IBM SPSS

## PROJECTS

**Personal Website** (alans.place)**:**
- Created with Vite.js and Three.js. Used blender to model a bedroom and used three.js to render and manipulate the model on the website.
- Implemented Scrolltrigger to activate animations on the site.

**Custom Shell:**
- Created a shell for Linux from scratch that can perform output redirection, background jobs, piping, and can quit processes with ^C.

**Checkpointing Program:**
- Created a checkpointing program in C for Linux that could stop processes and read the processes' data in proc maps into a file. The program could then read from the file to instantiate the program where it left off.

**Music Database Webapp:**
- A React app that can perform CRUD operations on a database of music created with MySQL.
- Created the database in MySQL workbench and the site in React.

**Disease Simulation:**
- Designed a disease particle simulation with adjustable parameters and GUI in Java.
- Implemented a graph that helped the user visualize the spread along with the simulation itself.

## EXPERIENCE

**Original Hot Bagels | Cashier:**  **Jun-Sep 2022**
- Operated a POS system to take orders from customers in person and over the phone.
- Oversaw weekly deliveries of ingredients and stocking of beverages.

**Redfire Grill | Dishwasher:**  **Jun-Sep 2021**
- Completed 8-hour shifts in a fast-paced environment.
- Washed and restocked dishes and completed ingredient preparation.

## ACTIVITIES

**Northeastern Electric Racing | Developer**  **Jan 2023 - Present**
- Worked on the club webapp built in Typescript, React, and Express.
- Improved and added various UI elements such as buttons and inputs.

**Charter Hacks | Judge**  **Sept - Aug 2021**
- Reviewed and judged submissions based on functionality and readability of code.
- Communicated with contestants to answer questions.