

Education

3rd year @ Queen's University (B.A.Sc. in Computer Engineering, Innovation Stream)

Kingston, Ontario

April 2025 (Expected)

GPA: 4.16/4.3 (Dean's Scholar)

- The Innovation stream allows me to combine engineering with courses in entrepreneurship and operating a business
- Courses in Data Structures & Algorithms, Object-Oriented Programming, Digital Logic, and Operating Systems
- Received Dean Scholars Distinction every semester and the Ontario Professional Engineers Foundation Scholarship

Technical Skills

Languages: | JavaScript | TypeScript | HTML | CSS | SCSS | SQL | C | Java | Assembly | Python |

Frameworks: | NodeJS | React | React Native | Flutter |

Tools: | Git | AWS | Firebase | Linux | VSCode |

Experience

My full work experience can be seen at linkedin.com/in/joshwfriedman.



Nutripair

Founding Full Stack Tech Lead

California (Remote)

August 2023 - Present

- As a member of the upper management team, I work with the CEO and other tech leads to create a product that helps users find food to match their dietary needs while also helping restaurants increase their customer base
- Implemented a CI/CD pipeline using **GitHub Actions** to fully automate the testing and building process of the app, decreasing build times from a day to under a minute
- Guided a team of interns focused on writing tests across the stack using **Jest**
- Documented the various processes and systems in place throughout our tech stack using **Notion**, increasing the onboarding speed of new engineers by over 50%



Nutripair

Software Engineering Intern (Full Stack)

California (Remote)

January 2023 - August 2023

- Implemented user authentication using **Amazon Cognito** to authenticate with the rest of the **AWS** suite, increasing security within the app
- Worked with backend engineers to implement a **CloudFront** caching layer to reduce loading times by 25%, increasing customer satisfaction by over 65%
- Worked with tech leads in an agile team to develop an app using **TypeScript + React Native** to help users find food at nearby restaurants that match their dietary needs
- Worked closely with beta testers to iterate and implement feedback, increasing user retention by 10%



Ollon

Software Engineer Intern

Toronto, Ontario (Remote)

June 2023 - August 2023

- Multi-tasked between several software projects to deliver high quality products to clients in a timely manner
- Worked with the CEO to develop a plan to redevelop a machine learning model in **Python** into more reusable code, and followed through, increasing accuracy by over 20% and decreasing runtime by over 50%
- Implemented an email status feature to connect the **React** frontend to the **Node.JS** backend, decreasing the volume of error reporting by over 75%
- Worked directly with clients to understand the product and suggest viable solutions to their issues and implemented these solutions for feedback rounds with the client



Engineering Society of Queen's University

Director of Information Technology

Kingston, Ontario

May 2023 - Present

- Managed IT resources for 7 businesses and 40+ teams overseen by the student society
- Reduced disk usage of our **Linux** main servers by over 25%, avoiding a potential cost of over \$1000
- Helped resolve key security vulnerabilities across our society websites, increasing security and preventing potential data breaches
- Implemented 100+ recurring cron jobs to backup sites, check security vulnerabilities, and update outdated software to help maintain server upkeep and security automatically

Projects

Check out more projects at joshfriedman.dev. All source code is available at github.com/jwiggiff.

Infinipedia

An AI-powered encyclopedia I built using **Next.JS**. It uses **Typescript + React** on the frontend and **Node.JS** in the backend to connect with the **OpenAI API**.

Playlist.AI

A playlist generator powered by **GPT-3** I built with a couple friends. I worked on the frontend using **Vite + React** and **Node.JS + Express** for the backend. It interacts with **OpenAI's API** to generate a playlist based on the inputted songs and uses **Spotify's API** for music searching and retrieving song information.