
647-639-5002 | michael.han@queensu.ca | [LinkedIn](#) | [DevPost](#) | [GitHub](#) | [Substack](#)

Skills

Languages: Python (Pandas, Numpy, Pygame), Java, C/C++, R, JavaScript, HTML/CSS, MATLAB

Data: MongoDB, Firebase, Supabase, PostgreSQL, MySQL, NoSQL, SQL, Clerk, Winnolin, Monolix

Frameworks: React, Node, Angular, Tailwind, Vue, Next

Other: SOLIDWORKS, Figma, PowerPoint, Word, Excel, Power BI, gpt4, VS Code, Windows, Git, GitHub, Google Cloud

Professional Experience

Full-Stack Developer | Xetlink AI

Aug 2023 - Present

- Solving integration issues with Zoom, Google meet, and Microsoft teams for a startup which raised \$300,000 pre-seed using MongoDB, Node.js, Angular.js, AWS

Founder and Full-Stack Developer | Juploy.com

Jul 2023 – Present

- Developing the next generation job board by saving users 50-70% time on job applications
- Built using Tailwind, Supabase, Next.js, Clerk, PostgreSQL

Undergraduate Research Assistant | University at Buffalo School of Pharmacy

May 2023 – Aug 2023

- Performed mathematical modelling on concentration of medications in pharmacokinetics datasets comprising of 2,000+ data points using Python (Pandas), Winnolin and Monolix under Dr. Qing Ma

Extracurriculars

Software Engineer | Queen's Technology and Media Association

Mar 2023 – Present

- Developing a phone screentime app which punishes users for exceeding their set limit via a monetary fine.
- Building using Java, React Native, Firebase, Stripe API. Also revamped org website using JavaScript and Typescript

Quantitative Analyst | Queen's Algorithmic Network & Trading Team

Sep 2022 – Apr 2023

- Created a stock trading algorithm, using Python through QuantConnect, returning a 3% yield increase
- Traded a dynamic universe of 100 stocks based on a 30-day moving average and rsi

Software Engineer | Queen's Biomechatronics Design Team

Sep 2022 – Apr 2023

- Designed and constructed load-bearing leg exoskeletons to assist firefighters lift a load of 40 lbs
- Developed code using Arduino and Git to compile data from the force load, and range of motion

Projects

Smart Flash Cards | Vue.js, Tailwind, Flask, Python, Node, GPT4 | [↗](#)

- Developed a flashcard generator site which saved an average user 2+ hours of time
- Used GPT4 to parse pdf and extract summaries
- Connected a python backend to a tailwind, and vue.js frontend to display flashcards in a user-friendly interface

Pitch Perfect | Figma, Python, JavaScript, HTML/CSS, Flask, GPT4 | [↗](#)

- Built an automatic pitch deck generator using. The pitch generator created slides and a corresponding pitch script based on a prompt, a logo idea, and the length of your pitch.
- Prompt engineered slideshow and connected it to JavaScript frontend

Education

Mathematics and Engineering – Specialization in Software | Queen's University

Sep 2022 - Apr 2026

Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Computer Architecture

Highlights: 1 of 25 students accepted in the specialized stream in the ECE innovation class of 2026 at Queen's University

Awards

Awards: QHacks 2nd Place, Principal's Scholarship Queen's University (\$4,000), Collision Scholar (\$1,300), Allan A Martin Alumni Award (\$1,000), Senior Athlete Award (\$500), 1st place Cawthra STEM Competition, Ontario Scholar, Ontario Citizenship Medallion

Interests: Sustainable Technology, Baseball, Youth Athletics, Software Development, Entrepreneurship, Hiking
