Max Liu

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EDUCATION

University of Toronto — Sept 2022 – June 2027
Bachelor of Science in Computer Science; Bachelor of Science in Mathematics — CGPA: 3.69
Relevant Coursework: Software Design, Databases, Machine Learning,
Algorithm Design, Information Security, Honours Calculus/Linear Algebra

EXPERIENCE

University of Toronto (Teaching assistant – Theory of Computation) — Aug 2024 – Dec 2024
Mississauga, ON (On-site)
- Led weekly office hours, teaching algorithm correctness, recurrence equations, and formal languages
- Collaborated with the instructor to proctor exams, moderate online discussions, and grade assignments

Savi Finance — Sept 2024 – Dec 2024
Toronto, ON (Remote)
- Developed and designed an AI chatbot sidebar using React and TypeScript, integrating seamlessly into web and mobile interfaces.
- Integrated the front-end application with OpenAI API for conversational AI, leveraging GraphQL to fetch information and connecting with MongoDB for data storage.

Pebble Shore Technologies — July 2021 – Sept 2021
Toronto, ON (Remote)
- Designed a scalable full-stack Microsoft Teams application using React and TypeScript, delivering fast and responsive performance under an Agile methodology
- Created several user-friendly tab applications with responsive integration into Teams databases
- Created a Microsoft Teams chatbot using Power Virtual Agents that seamlessly interfaces with tab features via natural language

PROJECTS

NoteFlip | *FastAPI, React Native, Next.js, PostgreSQL, OpenAI* — Feb 2024 – Present
- Developed a cross-platform educational app that converts handwritten notes into interactive flash cards
- Designed a scalable backend using FastAPI and PostgreSQL, integrating Google Cloud Vision for OCR and OpenAI's API for content processing
- Built dual-platform frontend interfaces with React Native for mobile and Next.js for web, ensuring seamless user experience

TextWolfram | *React, Python, Twilio, REST APIs* — Apr 2023
- Developed a text messaging conversation service that gives fast responses to technical questions
- Used WolframAlpha Conversational API for generating accurate human-like responses within two seconds of a message, Twilio webhooks with ngrok for deploying to a live server
- Designed an informative user-friendly website using the React framework

Woodlands CS Website | *Jekyll, Ruby, GitHub Pages, HTML/CSS/JavaScript* — Dec 2021 – May 2022
- Created an educational blog-style website using Jekyll and Ruby, featuring Pyodide-powered interactive code execution, syntax highlighting, and LaTeX rendering

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Java, C/C++, C#
Frameworks: React, React Native, MongoDB, Next.js, FastAPI, Node.js, Tailwind CSS
Developer Tools: Git/GitHub, GitHub Actions, Docker, Vercel, PostgreSQL