

ISHAN SETHI

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TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, Java, C, C++, C#, Bash, Powershell, SQL
Frameworks/Libraries	Flask, Node.js, .NET, Angular, React.js, Electron, OpenAI, LlamaIndex, TensorFlow, Docker, Amazon Web Services, Azure, Google Cloud Platform

EXPERIENCE

Fullstack AI Developer Intern	January 2024 - April 2024
AMD (Advanced Micro Devices)	Toronto, ON

- Led the development of a generative AI-powered web application for analyzing engineering requirement descriptions stored in Jama at AMD, utilizing **Angular** for the frontend and **Flask** for the backend.
- Implemented generative AI algorithms, including **langchain** and **RAG**, to identify and highlight ambiguous terms within requirement descriptions, providing suggestions for improvement.
- Created a **SQL** table to store LLM responses, ensuring efficient retrieval and management of generated suggestions for future reference and analysis.

Software Developer Intern	June 2023 - August 2023
Notified	Toronto, ON

- Orchestrated containerization of [GlobeNewswire](#) and supplementary applications (PNR, RSS, N3A, DCS)
- Optimized **Solr Cloud** installation through **Docker**, reducing setup time from 6 hours to 15 minutes
- Deployed **Docker Images** to **Amazon Elastic Container Registry**, and ran containers in AWS Elastic Container Service

Web Developer	May 2020 - Present
Freelance	Toronto, ON

- Designed dynamic mobile-first websites using **HTML**, **CSS**, **Javascript**, and **Bootstrap** for local businesses including a pediatrician's office, mobile store, and beauty salon
- Increased digital presence and foot traffic for those businesses
- Learned many entrepreneurial skills in networking, negotiation and customer satisfaction

PERSONAL PROJECTS

CustomGPT

- Developed a local version of ChatGPT enabling users to build and train custom conversational models
- Implemented **RAG** using **LlamaIndex** and a local **LLM** instance through **Ollama**
- Leveraged **Express.js** (backend), **Next.js** (frontend), and **Electron.js** for local deployment ([Link](#))

Auricular.ai

- Built the backend for a **Python** virtual assistant designed for students which analyzed the audio from online lessons and utilized **Natural Language Processing** AI to pick out key phrases such as test dates
- Employed **Google Cloud** Text to Speech, **Facebook's** Wit.ai APIs
- Won the 2nd place prize for the use of a Facebook API at Hack the North 2020++. ([Link](#))

Hand Pong

- Recreated the game "Pong" in **JavaScript** for Hack the North 2021 using **React.js**
- The paddle is controlled by the user's hand with a **TensorFlow** AI hand tracking motion control from the user's webcam, and communicates via a **Node.js** backend server with **socket.io** websockets ([Link](#))

Handwritten Numbers

- Developed and trained a machine learning model in **Python**
- Used **TensorFlow**, **Keras** and **TKinter** that would allow the user to draw any digit from 0-9. It converts the drawing into a **NumPy** array which is fed into the model that predicts it with 98% accuracy. ([Link](#))

EDUCATION

University of Waterloo, Computer Science (BCS w/ Honours Co-op)	Expected 2027
GPA: 3.70	

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Software Development, Algorithm Design and Data Abstraction, Tools and Techniques for Software Development, Logic and Computation, Designing Functional Programs, Linear Algebra, Calculus 1 & 2

Awards: President's Scholarship of Distinction, Excellent Academic Standing, Hypatia Contest Honour Roll, Euclid Math Contest distinction