

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 AMD (Advanced Micro Devices)	January 2024 - April 2024 Toronto, ON
<ul style="list-style-type: none">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 Notified	June 2023 - August 2023 Toronto, ON
<ul style="list-style-type: none">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 minutesDeployed Docker Images to Amazon Elastic Container Registry, and ran containers in AWS Elastic Container Service	
Web Developer Freelance	May 2020 - Present Toronto, ON
<ul style="list-style-type: none">Designed dynamic mobile-first websites using HTML, CSS, Javascript, and Bootstrap for local businesses including a pediatrician's office, mobile store, and beauty salonIncreased digital presence and foot traffic for those businessesLearned many entrepreneurial skills in networking, negotiation and customer satisfaction	

PERSONAL PROJECTS

CustomGPT	<ul style="list-style-type: none">Developed a local version of ChatGPT enabling users to build and train custom conversational modelsImplemented RAG using LlamaIndex and a local LLM instance through OllamaLeveraged Express.js (backend), Next.js (frontend), and Electron.js for local deployment (Link)
Auricular.ai	<ul style="list-style-type: none">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 datesEmployed Google Cloud Text to Speech, Facebook's Wit.ai APIsWon the 2nd place prize for the use of a Facebook API at Hack the North 2020++. (Link)
Hand Pong	<ul style="list-style-type: none">Recreated the game "Pong" in JavaScript for Hack the North 2021 using React.jsThe 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	<ul style="list-style-type: none">Developed and trained a machine learning model in PythonUsed 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	