

SAM MEYDANSHAH

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science (Honours), Software Engineering Specialization

2021 – 2026

- Coursework: Algorithms, Operating Systems, Object-Oriented Programming, Functional Programming, Database Management, App Development, User Interfaces, Data Structures, Compilers, Shell Scripting

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Java, Python, C, C++, Go, Rust, Kotlin, Swift, SQL, Bash, HTML/CSS

Technologies: React, Spring boot, Next.js, Angular, Node.js, Express.js, Tailwind, Django, FastAPI, Maven
Gradle, PostgreSQL, MongoDB, Firebase, Amazon RDS, Supabase, JWT, Docker, Kubernetes, LLMs

EXPERIENCE

Machine Learning Engineer

September 2025 – Present

wat.ai – Project Eve

Waterloo, ON

- Collaborating on the early-stage development of a multimodal AI system to translate visual lip movement into naturalistic speech, aimed at improving accessibility for speech-impaired individuals
- Participating in architectural discussions around self-supervised learning for audiovisual correlation tasks

Software Developer Intern

May 2025 – August 2025

Payments Canada – Development & Cloud Infrastructure Team

Ottawa, ON

- Developed and optimized participant search functionality (Angular + Spring Boot) in the RTR payments system, improving query flexibility and reducing errors for **100+ financial institutions**
- Delivered **40+ pull requests** across RTR, FIF, and CCIN systems, fixing backend validation bugs, enhancing data export reliability, and contributing to scalable API design decisions
- Implemented robust data validation and error handling in RTR and FIF APIs, **eliminating recurring 500-level errors** and preventing duplicate submissions

Software Developer Intern

January 2024 – April 2024

Teranet – Commercial & Registry Solutions Team

Toronto, ON

- Refactored core components of GeoWarehouse 3G using Angular, optimizing load times and improving performance for **100,000+ legal and real estate professionals** across Ontario
- Automated QA processes, enabling robust UI test scripts and **reducing manual testing time by approximately 30%**
- Optimized search query logic and fixed pagination issues in GeoWarehouse, improving query efficiency and delivering faster, more accurate property search results

Software Engineer Intern

January 2023 – April 2023

Teranet – IT Delivery Team

Toronto, ON

- Built a full-stack internal dashboard using Angular, TypeScript, and Node.js to **monitor 30+ backend services**, improving **DevOps visibility** and enabling faster issue detection and resolution
- Centralized key server metrics into a responsive single-page app, **cutting manual status checks by roughly 50%**

TECHNICAL PROJECTS

🔗 **AI Resume Analyzer** | Spring Boot, Python, OpenAI API, React, TypeScript, Tailwind, PostgreSQL

- Built an AI Resume Analyzer web app leveraging OpenAI GPT models to extract skills/experience from PDF resumes and provide ATS-style feedback against job descriptions.

🔗 **YouTube Wrapped** | Kotlin, Exposed, Jetpack Compose, Supabase, Google Cloud

- Developed an Android app in Kotlin to generate Spotify-Wrapped-style stats from users' YouTube watch history

🔗 **Text To Speech** | React, FastAPI, JavaScript

- Developed a text-to-speech web app that converts user-inputted text into AI-generated voice output

🔗 **Biquadris** | C/C++, XWindows

- Engineered a modular "Tetris" variant from scratch with custom rendering using object oriented programming