Ahmad Zaki

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Education

York University — **Toronto, ON**
Bachelor of Science in Computer Science (Honors) — *Expected Graduation, April 2026*

Courses: Design and Analysis of Algorithms, Computer Organization, Fundamentals of Data Structures, Introduction to Database Systems, Introduction to AI and Logic Programming, Advanced Object-Oriented Programming

Experience

Software Engineering Fellow — July 2024 – Sep 2024
HeadStarter AI — *Remote*

- Built and deployed 5 AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment
- Worked in a team of 3 to develop an interactive customer support agent using Next.js, integrated a custom RAG pipeline using OpenAI, AWS Bedrock and Pinecone that responds based on a company's knowledge base
- Collaborated with 3 Fellows to build and deploy a SaaS product that generates dynamic flashcards based on any topic using the OpenAI chatGPT-4-mini API, integrated a paywall and custom pricing plans using the Stripe API
- Participate in weekly sessions with engineers from Google, Y Combinator, Stanford, Amazon and venture-backed startups

Projects

Athena - AI Content Generator | *React, TypeScript, Tailwind CSS, PostgreSQL*

- Developed a SaaS website using **React, Shadcn, Tailwind CSS** for frontend, and backend in **TypeScript**, integrating open-source AI APIs for generating images, audio, code snippets, and conversations
- Implemented user authentication with **Clerk**, payment processing with **Stripe**, and customer support with Crisp chat; utilized **Prisma for PostgreSQL** to track user usage
- Executed API requests with **Axios** to interact with **ChatGPT 3.5-turbo**, **DALL-E**, and **Replicate AI**

Form Checker - NPM Package | *JavaScript*

- Developed a robust **NPM package** for form validation, Implemented synchronous and asynchronous validation functions for verifying email, username, phone number, and password inputs, ensuring comprehensive **form input integrity**
- Enhanced **user experience** with real-time validation, Integrated **API-based asynchronous checks** to verify the availability of usernames, emails, and phone numbers, providing instant feedback to users during form submission
- Achieved **379 downloads** in the first week as measured by **npm statistics** by promoting the package in developer communities and providing comprehensive usage examples and documentation

PantryPal - Smart Pantry Tracker | *React, JavaScript, Firebase*

- Built a dynamic pantry tracker using **React** and **Material-UI**, leveraging **Firebase** for real-time database management and state synchronization
- Integrated **OpenAI ChatGPT-4o mini** API to suggest recipes based on available pantry items, enhancing user experience with personalized recipe recommendations
- Implemented user-friendly search functionality and item quantity adjustment features, including seamless add, remove, and update operations for pantry items

Leadership

MUN Team Leader | *Jubail International School* — Oct 2021 - Feb 2022

- Managed a team of 3 individuals to communicate, coordinate and execute a virtual event on Zoom, attracting over 150 attendees
- Developed an email domain system for MUN leaders and team heads with different levels of permissions, enhancing communication efficiency
- Facilitated over 7 strategic discussions and negotiation sessions, simulating real-world diplomacy, which improved team collaboration and decision-making efficiency during the event

Technical Skills

Languages: Python, C, Java, JavaScript, TypeScript, SQL, PostgreSQL, MongoDB, HTML, CSS, RISC-V
Frameworks: React, Material-UI, Tailwind, Next.js, Node.js, JUnit
Technologies: Pinecone, Firebase, Visual Studio, IntelliJ, GitHub, Git, Eclipse, CI/CD, Linux