Ahmad Zaki

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EDUCATION

York University   Expected April 2026
Honours Bachelor of Science in Computer Science   *Toronto, ON*
Courses: Software Design, Data Structures, Database Systems, Computer Organization, Object-Oriented Programming

EXPERIENCE

Software Engineering Fellow   June 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

AI Content Generator Saas | *React, TypeScript, Tailwind CSS, Supabase(PostgreSQL), Stripe, OpenAI API*
- 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**

Media Storage Hub | *AngularJS, TypeScript, AWS, Amplify*
- Developed a web app for the storage of media files, featuring exportation with unique identification tags
- Leveraged **AWS services including S3, Lambda, and DynamoDB** for storing, retrieving, and tracking of media files with external metadata
- Employed **AWS Amplify** for user management, while integrating Amplify CLI for efficient **CI/CD** workflows
- Crafted a responsive UI with **lazy loading** while ensuring efficient application state management with NgRx

Smart Pantry Tracker | *React, JavaScript, Firebase, OpenAI API*
- 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

Event Manager - Model United Nations | *Jubail International School*   Oct 2021 - Feb 2022
- Managed a team of individuals to communicate, coordinate and execute a in person event, attracting over 150 attendees
- Designed and implemented a structured leadership framework, defining clear roles and responsibilities for team members, improving overall team efficiency.
- Assisted and facilitated various event planning activities, attending meetings to set goals, track progress, and manage resources, ensuring the smooth execution of the MUN event

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, SQL, PostgreSQL, HTML, CSS
Frameworks: React, AngularJS, Next.js, Tailwind CSS, Material-UI, Node.js, Prisma
Developer Tools: AWS (DynamoDB, S3, Amplify, Lambda), Git, GitHub, IntelliJ, Linux