

Ahmad Zaki

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Education

York University

Toronto, ON

Bachelor of Science in Computer Science(Honors)

Expected Graduation, 2025-2026

Courses: Advanced Object-Oriented Programming, Software tools, Computer Organization, Fundamentals of Data Structures, Introduction to Logic for Computer Science

Projects

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

- Developed a SaaS website using **React**, **Tailwind CSS**, and **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**
- Accomplished a **18% increase** in user engagement as measured by **weekly active users** by enhancing the user interface and optimizing API response times

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
- Ensured high code quality and maintainability, Utilized **regular expressions** for strict input validation, wrote clear documentation for each function, and adhered to best practices in JavaScript for clean, efficient, and reusable code
- 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.

Extracurricular

MUN IT 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
- Established and managed a custom Discord server throughout the event duration with 150 active members, facilitating real-time communication and collaboration among participants

Technical Skills

Languages: Python, C, Java, JavaScript, TypeScript, SQL, PostgreSQL, MongoDB, HTML, CSS, RISC-V

Frameworks: React, Tailwind, Next.js, Node.js, JUnit

Technologies: Firebase, Visual Studio, IntelliJ, GitHub, Git, Eclipse, CI/CD, Linux