Ahmed Abduljader

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EDUCATION

York University   Toronto, ON
Bachelor of Science Honors in Computer Science   *Expected Graduation Apr 2027*

Relevant Coursework
Discrete Mathematics, Programming Courses in C# , Java and Python, Front-End Web Development, Software Design Modeling

EXPERIENCE

Aether | *Co-President & Technical Director University of Ottawa* | Website
- Lead and oversee Aether's technical strategy, overseeing backend infrastructure and platform development.
- Engineered a **Linux** Ubuntu Server and Integrated a **self-hosted LLM** for a high school tech department, enabling **on-premises** AI capabilities for educational use, while adhering to **School District Data Privacy Policies**.
- Built and manage Aether's web platform, **offloading** AI and backend tasks to a **self-hosted** Linux server **reducing** serverless compute resources
- Architected and manage the club's **backend infrastructure**, including an **emailing service** and member authentication system.
- Developed a self-hosted **research platform**, allowing members to deploy LLM models, software projects, and internal tools.

PROJECTS

AnonAlyze | GitHub | *Next.js, TypeScript, JavaScript, Express.js, OpenAI API, Apify API*
- **Winner of Best Security Hack** at **York University**, by assessing privacy risks and enhancing user awareness.
- Developed a **RESTful API** back-end infrastructure using **Express.js** to connect the front-end with external APIs, including **Apify** and **OpenAI**, enabling seamless data retrieval and privacy analysis for users.
- Enhanced app performance with **asynchronous API requests**, **modular components**, and **dynamic imports** for **faster API requests** and simpler navigation.
- Utilized **Apify API** to efficiently **scrape publicly available data** from social media profiles, enabling the identification of sensitive information and potential security risks.

Broke2Woke | GitHub | *Next.js, TypeScript, Express.js, PostgreSQL, Cohere AI API, Flask, Scikit-Learn*
- Built a financial management platform to help users track expenses, set goals, and analyze spending habits within 36 hours, at **University of Toronto UofTHacks 12.**
- Integrated **Cohere AI API using JavaScript** with **TypeScript** to provide personalized financial advice and offer users account security recommendations.
- Implemented **JWT** for secure user authentication with **Bcrypt to hash** and safely store user info alongside **PostgreSQL** for real-time financial record tracking.
- Developed a **Flask-based machine learning model** using **Scikit-Learn** to predict spending trends and optimize budgeting.

TECHNICAL SKILLS

Languages: Python, Java, C#, JavaScript, TypeScript,
Frameworks & Libraries: Next.js(15+), React, Express.js, Flask, TailwindCSS(V4), Scikit-Learn
Databases & ORMs: PostgreSQL, NeonDB, MongoDB, Drizzle ORM
Tools & Platforms: Git, Vite, Clerk, Postman, Selenium, Docker, Vercel
Technologies & Concepts: RESTful APIs, Serverless Architectures, Authentication

CERTIFICATIONS AND AWARDS

Provost Scholarship Awarded By York University, **$500 Dollar Award**

Lassonde BEST Startup Awarded By York University, **$600 Dollar Award**

Experience Venture Award Awarded By York University Issued by David Kwok Director of Entrepreneurship Innovation, **$325 Dollar Award**

Best Security Hack Awarded By **1Password**