YAHIA ALY

7-1029 South Park St, Halifax, Nova Scotia B3H 2W4

📞 343-961-3377 ✉ Yahia.Aly@dal.ca 🔗 linkedin.com/in/yahia-moustafa-aly 🐙 github.com/YahiaMH

Education

Dalhousie University   Sep. 2022 – April 2026
Bachelor of Computer Science, Minor in Statistics   *Halifax, Nova Scotia*
CGPA: 4.09

Experience

Studley AI (studley.ai)   Nov. 2024 – Present
Co-Founder & Lead Software Engineer   *Halifax, Nova Scotia*

- Scaled a rapidly growing AI platform to support over **100,000 users** by designing and implementing its backend architecture, ensuring **scalability**, **performance**, and **reliability**.
- Built the backend infrastructure with **NodeJS**, **ExpressJS**, and **MongoDB**, alongside responsive **ReactJS** web and **React Native** mobile interfaces styled with **TailwindCSS**.
- Oversaw **product strategy**, **design**, and **development** across web and mobile platforms, directly connecting with users to translate feedback into actionable features that increased **engagement** and **retention**.
- Built **RESTful APIs** integrating **Google Generative AI** and **OpenAI** services, implemented **OAuth**-based secure login (Apple/Google) with **JWT** authentication, and managed subscription payments using **Stripe** and **RevenueCat**.

ResMed   Jan. 2025 – May 2025
Software Engineer Intern   *Halifax, Nova Scotia*

- Developed **high-performance**, **scalable** web applications, **back-end services**, and **database solutions**.
- Wrote clear, well-documented code with an emphasis on **automated testing** to ensure **code quality** and **reliability**.
- Worked in an **Agile** development environment, participating in **sprint planning**, **daily stand-ups**, and **retrospectives** to deliver iterative improvements.
- Collaborated with senior developers through **pair programming** and **code reviews**, ensuring adherence to **secure coding** best practices.

Projects

Discord Bot | *NodeJS, MongoDB*   Jan. 2021

- Implemented an economy system with a bank, a shop, and various games.
- Utilized asynchronous programming techniques to handle multiple user interactions simultaneously.
- Learned about server-client communication and database management.

AI Chatbot | *ReactJS*   May 2024

- Developed an AI chatbot website using ReactJS, delivering an interactive conversational experience.
- Integrated multiple AI models (OpenAI, Google Generative AI, and Claude AI) to offer a diverse range of experiences.
- Utilized API integration techniques to seamlessly connect and switch between different AI models.

Drawing Software | *Java, Java Swing*   Nov. 2021

- Developed drawing software in Java using JFrame and JCanvas.
- Explored algorithms for efficient rendering and manipulation of graphical objects.
- Overcame challenges in handling user input and ensuring smooth rendering performance.

Lab Simulators | *Java, Java Swing*   April 2022

- Developed a titration simulator and a projectile motion simulator in Java using JFrame and JCanvas.
- Used physics and mathematical models to simulate real world phenomena accurately.
- Learned about graphical user interface development and event-driven programming.
- Overcame challenges in accurately representing physical phenomena and providing interactive user controls.

Technical Skills

Languages:	Java, JavaScript, HTML & CSS, Python, C, R, SQL
Frameworks/Libraries:	NodeJS, ReactJS, ExpressJS, Spring Boot, JUnit, TailwindCSS
Technologies/Tools:	MongoDB, MySQL, Git, GitHub, GitLab, Jira, AWS, Docker, Kubernetes, Postman, Swagger, Stripe, RevenueCat