

EISA KAPADIA

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Education

Toronto Metropolitan University | Bachelors Of Computer Engineering, Co-op
Toronto District School Board | Bilingual Certification | French

Sep 2023 - May 2028
June 2023

Experience

Software Engineer Intern | Honda Canada

April 2026 - Present

- **Developed** control logic for 4 assembly line automated workflows using **Java, TypeScript, and Jira** to synchronize real time production data with manufacturing execution systems
- **Optimized** assembly sequences by refactoring legacy scripts into **Angular JS** modules using a **CI/CD** pipeline(Jenkins)
- **Architected** a scalable **PostgreSQL** database to track hardware sensor feedback reducing downtime by 8%

Software Engineer Intern | SAVR Inc.

Jan - April 2026

- **Engineered** a mobile application using **Expo and React Native** to migrate a legacy web platform to **iOS**
- **Re-architected** frontend components to implement native mobile design patterns using REST APIs, improving application responsiveness and performance through optimized view rendering and touch interactions
- **Engineered a retrieval-augmented generation** pipeline using **Python and OpenAI APIs** to automate personalized nutritional analysis, processing complex user dietary preferences to generate tailored meal recommendations

Software Engineer Intern | Nettoyage Eco Vert

Sep - Dec 2025

- **Designed and built** a real-time Kahoot-style quiz platform using **Next.js and Socket.IO**, enabling live multiplayer sessions using **Websockets with <200 ms latency** for staff training assessments used by over **50 employees**.
- **Implemented a scalable backend** with **Node.js and PostgreSQL** using **Docker**, modeling quizzes, questions, sessions, and responses to **support concurrent users and training analytics**.

Logistics Coordinator | AWS Cloud Club TMU

Jun 2025 - Present

- **Developed** technical workshops on cloud architecture using **AWS** services like **EC2 and S3** to educate a student community of **300+** members on scalable infrastructure and deployment best practices

Projects

Studdle | NFC-Enabled Focus Pet

March 2026

- **Architected** an IoT productivity system using an **ESP32** and **NFC** technology to automate distraction-free studying
- **Developed** a mobile application and **Node.js** backend using **React Native** to programmatically restrict distracting apps
- **Engineered** dynamic visual feedback states on hardware to communicate focus milestones and integrated a gamified reward logic to increase user engagement and study consistency by **20%** during initial testing using **C++** and **Python**

ModuLib | Bookstore Management System

Jan 2025

- **Designed** a modular bookstore in **Java** with a **JavaFX GUI** using **object-oriented principles**, managing inventory and **50+ customer** transactions, improving system maintainability and user experience.
- **Improved feature extensibility** by implementing the **State Design Pattern** for dynamic reward tiers and purchase logic.
- **Enhanced software design clarity** by modeling system interactions with **UML Class & Use Case Diagrams**.

SafeStride | Low Power Visual Mobility Aid

Dec 2025

- **Built** a mobility-assistance device using **ESP32-CAM, ToF sensors, and vibration modules** to deliver **real-time obstacle detection and haptic feedback** for visually impaired users using **C++**.
- **Trained** a machine learning model using **TensorFlow Lite Micro** to detect obstacles and people for collision avoidance
- **Tested and iterated hardware prototypes** through field trials, improving **system reliability and usability** based on user feedback.

Skills

- **Languages** : C/C++, Java, Python, TypeScript, PostgreSQL, VHDL, Matlab, System Verilog, Assembly, Javascript, TypeScript, C#
- **Developer Tools** : Git, ModelSim, Quartus II, Docker, Microsoft Office (Excel, Powerpoint, etc.), Jira, Confluence, Jenkins
- **Libraries** : JUnit, Springboot, FastAPI, Next.js, Node.js, Socket.io, React JS, Angular