

Immanuel Gnanaseelan

(647) 988-4767 — ignanaseelan04@gmail.com

linkedin.com/in/immanuelgnanaseelan — github.com/immanuelgn

Education

Toronto Metropolitan University

Toronto, ON

Bachelor of Engineering (B.Eng), Computer Engineering

Sept. 2022 – Present

- **Relevant Coursework:** Data Structures & Algorithms, Digital Systems, Software Systems, Database Systems, Communication for Engineering

Technical Skills

Languages: Java, Python, C#, TypeScript, JavaScript, SQL, VHDL, HTML

Frameworks & Platforms: React Native, ASP.NET Core, .NET, Supabase, Swing

Tools & Technologies: REST APIs, BrowserStack, VirtualBox, Jira, SQL Server, Expo Go, Oracle SQL, Chart.js, Git, FPGA

Concepts: Mobile App Development, Backend API Development, Database Design (BCNF), QA Testing, UI/UX Implementation, Software Architecture

Experience

Mobile Application Developer

Toronto, ON

Dominance Forbes Foundation Inc.

Feb. 2026 – March 2026

- Developed a cross-platform mobile application prototype using React Native, Expo, and TypeScript to support Caribbean and African diaspora communities through wellness, mentorship, and economic empowerment initiatives.
- Produced pre-development architecture artifacts, including context diagrams, component diagrams, and a risk register, to define system scope, dependencies, and delivery risks.
- Implemented secure authentication (email/OAuth), role-based access control (admin vs. user), multilingual support (English/French), and user onboarding flows.
- Built modules for mental health support, workout partner matching, persona-based profiles, and event discovery/registration with Supabase (Auth, PostgreSQL, Row Level Security).

Customer Training & Quality Assurance Specialist

Toronto, ON

BoardQMS Solutions Inc.

Jan. 2026 – March 2026

- Developed user guides and narrated training demos for DML and Change Request workflows to improve user adoption.
- Executed QA testing on Training Matrix and Document Control modules, documented defects, and validated UI/UX improvements with stakeholders.

Software Quality Assurance Engineer

Fort Erie, ON

GenesisCircle

May 2025 – Sept. 2025

- Conducted functional and usability testing across enterprise fleet management workflows and device types.
- Logged and prioritized defects in Jira, collaborated with developers on fixes, and supported customer issue resolution.

Projects

Clash Royale Deck Analytics Engine | C#, ASP.NET Core, REST APIs, JavaScript

- Engineered a backend analytics engine to evaluate decks using card metadata, elixir cost, and role distribution.
- Built REST API endpoints for synergy scoring and automatic deck classification; integrated Chart.js visualizations for matchup insights.
- Automated card role assignment and attack-type inference to reduce manual configuration and improve model consistency.

Clothing Retail Store DBMS | Java, Oracle SQL, Swing, JDBC

- Designed a BCNF-normalized Oracle database (8+ tables) with constraints and advanced SQL queries.
- Built a Java Swing + JDBC application supporting schema operations, CRUD, analytical reporting, and transactional integrity checks.