

# Immanuel Gnanaseelan

Scarborough, On  
(647) 988-4767 | ignanaseelan04@gmail.com

## EDUCATION

### **(BEng) Software Engineering (September 2022 - Present)**

Toronto Metropolitan University → majoring in Software Engineering

Noteworthy Courses Taken: Calculus 1-3, Data Structures and Algorithms, Digital Systems, Software Systems, Communication in the Engineering Professions

## Skills and Certifications

- **Technical Proficiency:** Skilled in Java, Jira, Python, C#, HTML, SQL, JavaScript, and VHDL, with hands-on experience in software systems design, databases, and data-handling tools.
- **Data Accuracy & Verification:** Highly detail-oriented with a focus on maintaining clean, validated datasets and precise documentation.
- **Microsoft Office Suite:** Proficient in Excel, Word, and PowerPoint for data entry, analysis, and technical reporting.
- **Time Management & Organization:** Consistently meet deadlines while managing multiple projects independently in both on-site and remote environments.
- **Team Collaboration:** Communicate effectively with peers and supervisors to streamline workflows and ensure project efficiency.
- **Adaptability & Reliability:** Demonstrate unwavering diligence, punctuality, and flexibility in dynamic work settings.
- **Certifications:** WHMIS

## EXPERIENCE

### **App Tester & Application Specialist**

*GenesisCircle – Fort Erie, Ontario*

*May 2025 – September 2025*

- Conducted functional and usability testing for enterprise-level fleet management applications, ensuring smooth operation across multiple devices.
- Identified and documented software bugs, providing detailed feedback to developers for rapid resolution.
- Used Jira to track tasks, issue tracking, bug reporting, and ensure project milestones were met.
- Collaborated with QA and development teams to validate updates, maintain performance consistency, and enhance user experience
- Improved customer service by completing tickets in a timely manner and helped customers understand new features or updates

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## Projects

### Cloud Storage File Uploader

- C# application using the AWS SDK for .NET to upload files to Amazon S3 cloud storage
- Leveraged the Amazon AWS SDK to establish secure connections and facilitate seamless file transfers, enhancing data integrity and confidentiality in cloud storage operations
- user-friendly interface with Windows Forms for seamless file upload interactions
- strong problem-solving skills by integrating error-handling mechanisms to ensure robustness and reliability

### Bank System Application — C#, .NET Framework, SQL Server

- Developed a full-stack Windows Forms application featuring user login, authentication balance retrieval, and deposit/withdrawal transactions
- Integrated SQL Server for persistent data management
- Implemented dynamic UI control to switch between login and banking interfaces
- Ensured data integrity using SQL queries and flexible code structure

### Central Processing Unit (CPU) and Arithmetic Logic Unit (ALU) Design

- Designed and implemented a simple CPU with an ALU in a VHDL environment, targeting FPGA deployment.
- Created core CPU functions, including control units and data processing, using VHDL, and verified operation through simulation.
- Integrated components such as finite state machines (FSM), decoders, and 8-bit registers to handle arithmetic and logic operations.
- Demonstrated functions through FPGA-based testing and 7-segment display outputs.