

# Harishan Amutheesan

## Software Engineering

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## EXPERIENCE

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### IT Developer, [Canada Revenue Agency](#)

September 2022 – Present

- Developed Corporate Administrative Systems (CAS) SAP system upgrade from SAP ECC to SAP S/4 HANA
- Worked on Data Modeling, Validation, and Processing
- Worked with external consultants to teach new SAP and Micro Focus application to new and existing employees
- Developed, Demoed and Presented RMF workshop series to ABAP developers, Change Agents, and Team Leads

### Canada-Africa Innovation Fellowship, [Engineers Without Borders Canada](#)

March 2023 – August 2023

- Integrated a cloud-based IoT platform for efficient management of off-grid PV systems in Uganda.
- Led the implementation of a USSD 2G mobile payment system, enhancing solar energy access in rural areas.
- Collaborated with experts and local communities to design technology solutions addressing real-world energy challenges.
- Enhanced skills in IoT, project management, and cross-cultural collaboration.

### ITV(Integration, Testing, Verification) Specialist, [Thales Rail Signalling Solutions](#)

January 2022 – August 2022

- Testing and quality assurance of complex train control software (SelTrac CBTC) under diverse global standards.
- Skilled in system integration, adept at configuring and troubleshooting software with both new and legacy train hardware.
- Collaborative team player, proficient in working with cross-functional teams, including hardware and software development units.
- Strong analytical skills, adept at fault analysis, reactive testing, and problem-solving in high-stakes, technology-driven environments.

### Software Development Intern, [Scrapp](#)

June 2021 – September 2021

- UI/UX development for a recycling app using Flutter and Dart, translating Figma designs into user-friendly interfaces.
- Managed cloud services on Microsoft Azure and adeptly handled version control with BitBucket, showcasing versatility and technical proficiency in a startup environment.

### STEM Camp Leader, City of Brampton

August 2017 – June 2019

- Developed a intriguing curriculum for children aged 10 – 15 on fundamental python programming
- Cultivated leadership skills as STEM camp leader for about 60 students
- Steady communication with parents to ensure satisfaction with campers programming skills

## EDUCATION

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### Bachelor of Engineering | Carleton University

Sept. 2019 – Present

Software Engineering Co-op (3rd Year | Expected Graduation - May 2025)

## SKILLS

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**Languages:** Dart, Python, Go, Java, C/C++, JavaScript, HTML5, CSS, VBScript

**Tools:** Flutter, PIL, Git, Node.js, Unix, Azure, Excel Macros(VBA), DOORs, Jira, IBM Rational ClearQuest, Micro Focus UFT, Powershell, IoT, Jacoco, Gradle, Maven, SAP(ECC, S/4 HANA, ChaRM, ABAP),

**Soft Skills:** Cross-Cultural Collaboration, Leadership & Team Management, Effective Communication, Problem Solving & Analytical Thinking, Adaptability & Resilience, Innovative Thinking, Project Management, Active Learning & Continuous Improvement

## PROJECTS

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### Elevator Control System and Simulator

Designed and implemented a multi-threaded elevator control system and simulator in Java, capable of handling multiple elevator cars simultaneously.

### Meals App

Developed a cross-platform Flutter app for meal categorization and details, featuring customized screens for categories, meal details, and user favorites, employing Dart for dynamic and interactive mobile user experiences.

### E-Commerce Application

Designed and implemented a Java-based E-Commerce Application, using Object-Oriented Software Development, including user interface management, inventory control, and shopping cart functionality.