

# YASSIN SOLIMAN

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## EDUCATION

### Schulich School of Engineering (University of Calgary)

Bachelor of Science in Software Engineering

Calgary, AB

Expected April 2028

- **Relevant Coursework:** Operating Systems, Computer Architecture & Organization, Databases, Digital Circuits, Embedded Systems, Full-stack Web Development, Networks, Object-Oriented Programming, Data Structures & Algorithms, Software Design, Statistics, Machine Learning & Deep Learning

## TECHNICAL SKILLS

**Languages:** C, C++, Python, Cython, Java, SQL (PostgreSQL and MySQL), JavaScript, HTML5, CSS, TypeScript, TailwindCSS, Arduino

**Frameworks and Libraries:** React, NextJS, WordPress, TensorFlow, JUnit, Swing, Django, Bootstrap, NodeJS, AngularJS, Golang, Node, NumPy, Platform Tools, CI/CD

**Developer Tools and Environments:** Cursor, Git, GitHub, Visual Studio Code, PyCharm, IntelliJ, Xcode, Cygwin, AutoCAD (CAD), MPLAB X IDE, Docker, Kubernetes, macOS, Windows 10, Linux, Unix, Shell Scripting, VMWare Fusion, VirtualBox, UTM, SSH

## EXPERIENCE

### Club Software Lead

Nov. 2024 – Present

Waybionic |  | **Next.js, TypeScript, TailwindCSS, Arduino, C, C++, Agile**

Calgary, AB

- Led development of control systems for a **robotic bionic arm**, programming in **C, C++, and Arduino** to achieve precise and reliable motion control
- Integrated **sensors, actuators, and real-time embedded algorithms**, ensuring responsive performance of robotic components; additionally developed **Next.js/TypeScript** website to showcase and document the project
- Directed a cross-functional team of 8 engineers through **Agile** sprints and code reviews, improving productivity by **40%**

### Full Stack Web Developer

May 2024 – May 2025

Little Footprints |  | **JavaScript, HTML, CSS, REST APIs, Agile**

Calgary, AB

- Developed fintech websites using **JavaScript, HTML, and CSS** with **REST API** integration, boosting sales by **30%**
- Administered data-driven social media strategies, **increasing engagement by 70%**
- Enhanced frontend performance and **SEO** through web traffic analysis and SSL integration, enabling **50% more users** to visit
- Collaborated in **Agile** workflows with 2 software engineers, refining iterative solutions and communication

### Programming Instructor

July 2023 – Sept. 2023

Code Ninjas |  | **Python, Data Structures, Curriculum Design**

Calgary, AB

- Taught core programming and **data structures** concepts using interactive games, expanding student engagement by **75%**
- Guided **160+ students** through software development challenges and iteratively refined curriculum based on feedback, boosting coding confidence and troubleshooting skills by **30%**

## PROJECTS

### PathGuard | | **Python, YOLOv8, ESP32-CAM, Arduino, AWS, React, TypeScript**

Nov. 2025

- Built a crosswalk safety prototype combining an **ESP32-CAM** people-counting node, an **Arduino UNO R4 WiFi** hazard kiosk, and an **AWS** backend to surface real-time pedestrian congestion and hazards on a map dashboard
- Implemented a **YOLOv8n** + ByteTrack pipeline to detect and track pedestrians from an MJPEG stream, computing 5-minute rolling averages and publishing compact “low/med/high” congestion records to an ingest API
- Programmed a joystick-driven **LCD** UI and ultrasonic pedestrian detector with 9 hazard categories, sending structured **self\_report** events to **DynamoDB** and triggering **SNS** email alerts

### DisasterManagementGUI | | **Java, PostgreSQL, JUnit, Swing**

March 2025

- Developed a bilingual (English/French) **Java**-based disaster response management system with modules for victims, supplies, inquiries, and location tracking, enabling a **50%** increase in support capacity for teams
- Implemented dynamic GUI and **PostgreSQL** database connectivity for persistent data handling
- Applied custom data models and **JUnit** testing for modularity and reliability with **100%** pass on all test cases