

Yassine Assim

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TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, Rust, Java, C++, SQL, Shell Scripting

Frontend: React, Material-UI, TypeScript, HTML/CSS

Backend: Flask, RESTful APIs, SQLite, PostgreSQL

Cloud/DevOps: Docker, Git, CI/CD, Jenkins, Linux, Systemd, Azure

Data Engineering: ETL Pipelines, Pandas, Data Modeling

AI/ML: Computer Vision, TensorFlow, Data Annotation

Software Design: Agile/Scrum, Object-Oriented Design, API Design, System Architecture

PROFESSIONAL EXPERIENCE

Software Engineer Intern

September 2024 - December 2024

Evertz Microsystems

Burlington, Ontario

- Engineered firmware comparison ETL pipeline using **Python**, **Flask** and **SQLite**, reducing analysis time from days to seconds
- Developed automated test framework for broadcast equipment validation, supporting multiple timing reference generators and video signal analyzers
- Configured **Jenkins** pipeline to automate firmware test execution, reducing manual testing overhead by automating nightly test runs
- Built **RESTful API** endpoints for firmware version management and comparison results retrieval
- Created responsive web interface using **React**, **Material-UI**, and **TypeScript** for visualizing firmware differences

Software Engineer Intern

January 2024 - April 2024

Evertz Microsystems

Burlington, Ontario

- Developed a full-stack power supply calculator application using **Python** and **wxPython**, helping customers optimize broadcast system configurations
- Implemented object-oriented architecture for equipment modeling, supporting **20+** device types including enterprise routing platforms, modular frames, cards, and power supplies
- Built validation system for power requirements and configuration compatibility, preventing costly hardware misconfigurations
- Created intuitive UI with dynamic grid layouts and real-time calculations for power consumption, BTU, and weight metrics

TECHNICAL PROJECTS

Brawlr - (Capstone) AI Boxing Judge Application (*Python, TensorFlow, React Native, WebRTC*)

- Developing real-time boxing match analysis system using **computer vision** and **machine learning**
- Implemented live video streaming pipeline from mobile devices to web platform using **WebRTC**
- Training custom AI model for boxing move detection and scoring using annotated fight footage
- Collaborating in an agile team environment to deliver MVP for local boxing gyms

EduSCROLL - Educational Content Platform (*Python, Flask, MongoDB, React Native*)

- Built RESTful API using **Flask** and **MongoDB** to serve educational content across 6+ categories with error handling and CORS support
- Developed automated web scraping system using **BeautifulSoup4** with robust error handling and logging, processing 100+ articles daily
- Created cross-platform mobile app using **React Native** with multi-screen navigation stack and responsive article layouts

EDUCATION

Sheridan College

2023 - 2026

Computer Software Engineering (Co-op)

Oakville, Ontario

- Academic Achievement: Honours Standing 2023-2024
- Leadership: Google Student Developer Club (Design Lead)
- Key Coursework: Data Structures, Operating Systems, Database Management, AWS - Cloud Computing, Machine Learning