

Xavier Groleau

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EDUCATION

University of Sherbrooke

Computer engineering (coop programm)

Sherbrooke, Qc

2017 – 2021

CÉGEP of Sherbrooke

Natural sciences

Sherbrooke, Qc

2015 - 2017

EXPERIENCE

Artificial intelligence intern

University of Sherbrooke

September 2020 – Present

Sherbrooke, Qc

- wip

IoT software developer

Genetec

Jan 2020 – Apr 2020

Quebec, Qc

- Developed a web service in C# for IoT device management interfacing with docker and Azure
- Developed a web application using TypeScript, React and Redux
- Developed a daemon on an embedded linux device in Erlang
- Offered support for the QA team to assure high fault tolerance
- Developed under Kanban methodologies

Embedded developer

Hop-Child Technologies

May 2019 - Dec 2018

Sherbrooke, Qc

- Developed embedded systems in C
- Developed web applications using TypeScript, Angular and ExpressJs
- Developed a product used by people with autism spectrum disorder
- Participated in decision making of a small business

DevOps intern

Optel Group

Sep 2018 - Dec 2018

Quebec, Qc

- Developed a fullstack application in JavaScript and Python using React and Django
- Managed a PostgreSQL database and it's backups
- Deployed containerized applications using Docker and Kubernetes in the cloud
- Reduced downtime on micro-services updates
- Developed under Scrum methodologies

PROJECTS

Project SwarmUS

May 2020 - Present

- Developed an swarm robotic solution for mapping applications (SLAM)
- Developed embedded C++ modules with ROS integration
- Developed on a custom language using a virtual machine on an embedded ARM MCU

The machine, Engineering games

Sep 2019 - Jan 2020

- Developed a robotic system in four months that can complete a complex problem
- Worked in a multidisciplinary environment
- Write engineering reports in LaTeX

Wearable

Jan 2019 - May 2019

- Developed a wearable prototype on an FPGA
- Developed a web server on an ARM processor in C
- Developed a web interface showing the data from the wearable using Angular in TypeScript

SCHOOL IMPLICATION

Computer engineering representative of the 63th promotion

Jan 2018 - May 2018

- Organised events with the members of the promotions
- Ordered and sold promotional objects
- Communicated with the committees and the students

TECHNICAL SKILLS

Languages: C/C++, Python, C#, Rust, HTML, CSS, SQL

Frameworks: React, Angular, Node.js, Flask, Django, PyTest, GoogleTest, Jest

Developer Tools: Git, Docker, Google Cloud Platform, Emacs, Vim, VS Code, Visual Studio, IntelliJ, Eclipse

Libraries: TensorFlow, Keras, NumPy, Pandas, Matplotlib