Xavier Groleau

(819) 919-5022 | xavgroleau@gmail.com | linkedin.com/in/xavier-groleau | github.com/xgroleau

Education

University de Sherbrooke — Sherbrooke, Qc
Génie informatique (programme coop) — *2017 – 2021*

CÉGEP de Sherbrooke — Sherbrooke, Qc
Sciences de la nature — *2015 - 2017*

Experience

Artificial intelligence intern — September 2020 – Present
University of Sherbrooke — *Sherbrooke, Qc*
- Developed multiple machine learning algorithm using Keras and TensorFlow
- Gave presentations on campus

IoT software developer — Jan 2020 – Apr 2020
Genetec — *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 tolerence
- Developed under Kanban methodologies

Embedded developer — May 2019 - Dec 2018
Hop-Child Technologies — *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 — Sep 2018 - Dec 2018
Optel Group — *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 multidisciplinairy 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