

JONATHAN PAPINEAU

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WORK EXPERIENCE

Back-End Developer / System Administrator

021 Technologies

May 2020 – August 2020 Ottawa, Ontario (Remote)

- Built from the ground up and maintained a fault-tolerant web service hosted on AWS.
- Developed a REST API in Java using Jakarta EE tools.
- Developed an API in NodeJS.
- Gained communication skills by giving presentations to team members and writing various reports.
- Worked in an Agile/Scrum environment.

AWS NGINX Apache Java Jakarta EE (Java EE)
NodeJS MySQL Linux

Information Technology Intern

Datacloud Networks

July 2018 – August 2019 Hearst, Ontario

- Developed a web application using HTML, JavaScript and PHP to coordinate student's coop at the University of Hearst.
- Used GIS (Geographic Information System) tools to plan and coordinate fibre optic installation for an FTTH network that spans a town with a population of 5,000.
- Collaborated with other team members to develop a web application.
- Managed work independently with minimal supervision.
- Wrote progress and product recommendation reports.

HTML JavaScript

PROJECTS

CAN-RGX competition

uORocketry

2019 – Ongoing Ottawa, Ontario

- Currently building a Python app in charge of collecting sensors' data, monitoring an experiment, and controlling various elements on user request.
- Programmed an Arduino in charge of controlling the motors efficiently using interrupts.
- Built the app to be reliable, organized, and have a strong logging system to identify issues quickly.
- See code on Github (github.com/uorocketry/can-rgx).

Python C++ Linux Embedded

Home file server (NAS)

Personal Project

- Built a computer to function as a personal NAS using the FreeNAS OS.
- Gained experience using a Unix-like operating system.
- Used a combination of FreeBSD jails and Docker to run services.
- Used an Nginx reverse proxy in conjunction with OpenVPN on a Google VPS to access various services (NextCloud, Plex) from the internet.
- Configured the firewall and services to protect the server against threats from the internet.

Unix Linux FreeBSD Networking Docker

EDUCATION

Honours Bachelor of Science in Computer Science (Co-op) and Minor in Physics

University of Ottawa CGPA: 9.9/10

2019 – Ongoing

- Currently in second year.
- Took *Data Structures and Algorithms* and *Introduction to Software Engineering*.

Ontario Secondary School Diploma

Hearst High School Average: 96.1%

2015- 2019

- Graduated with an SHSM (Specialist High Skills Majors).
- Received the Governor General's Academic Medal for an average of 96.1%.

SKILLS

Programming Languages

Proficient: Java Python JavaScript

SQL

Familiar: C++ Rust Go

Programming Tools/Software

Git Vim JetBrains IDEs AWS

Android Dev LaTeX Regex

- Unix-like operating systems (Linux, FreeBSD):**
Used extensively in personal/educational projects. Currently using OpenSUSE Tumbleweed as main OS.

LANGUAGES

English Fluent in writing and reading

French Native

Skills Ontario Competition

Robotics Teams

📅 2017 – 2019

📍 Hearst, Ontario

- Involved in the designing and building of a robot based on criteria for the Skills Ontario, Robotics Team of 4 Competition.
- Designed and programmed (using C++) autonomous robots which accomplished various tasks for the Skills Ontario Competition.
- Gained teamwork and problem-solving skills while designing and building the robots.
- Represented the school at the Skills Ontario competition for two consecutive years; Won 2nd place both years.
- 2019 autonomous code can be found on Github (github.com/jonapap/skills-2019-autonomous)

C++

Robotics

Arduino