JONATHAN PAPINEAU

@ **Please use contact form on the website**   ⚲ **Ottawa, Canada**   in linkedin.com/in/jonathan-papineau

⌕ **github.com/jonapap**   ⊕ **jpapineau.ca**

WORK EXPERIENCE

Back-End Developer
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 Node.JS.
- 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

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/jonapap).

Python   C++   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   Networking   FreeBSD   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.
- Currently taking *Data Structures and Algorithms*.

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

- **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.

C++   Robotics

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