Ludovic Provost

Computer Engineering

Tel.: 418-717-4030
Github: https://github.com/LudoProvost
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Skills

- **Languages**: Python, C++, C#, C, Java, SQL, SQLite, PL/SQL, R, Groovy, GraphQL, VHDL, Verilog
- **Tools**: Linux (Ubuntu), Quartus, Matlab, Jira, Postman, Red Hat OCP, Jenkins, Fusion360, KiCad, Wireshark, Vivado, Keil
- **General skills**: Leadership, teamwork, Communication, Organization

Education

University of Ottawa, BASc. Computer Engineering **September 2020 – May 2025**

- CGPA : **94%**
- Part of the Dean's Honor List for 5 consecutive semesters

Experiences

I.T. Technician **May 2021 – November 2021**
Élections Québec

- Repair and maintenance of computer equipment
- Customer service using Cisco Finesse, MS Teams, and Outlook to communicate with users
- Use of Azure Active Directory (Azure AD) and Microsoft System Center Configuration Manager (SCCM)

Internship in Application Support **May 2022 – August 2022**
Brookfield Renewable Partners L.P.

- Used PL/SQL scripts to recover information in the company's database

Internship as CI/CD Software developer **September 2022 – December 2022**
Intact Financial Corporation

- Identified and resolved issues related to pipelines, services, the company's website and its tools
- Implemented automated tasks, automated tests, and a failure alert system
- Migrated services from Log4j to Logback
- Documented code, processes, and permissions in accordance with company standards

Projects

Sudoku Matrix Encryption/Decryption Algorithm | Python

- Implementation of lossless image encryption and decryption algorithms done in Python

VGA Controller and Basic Shape Rendering | Python, Verilog

- Design of a VGA controller in Verilog using references from Altium's VGA controller
- Implemented a PPM file to PNG format tool in Python

UART Design for Traffic Light Controller | VHDL

- Designing of a UART in structural VHDL to allow a traffic light controller to communicate debug messages via a port on a computer
- Schematics, simulations as well as the problems encountered are all provided on my Github

LED Matrix Design on custom PCB | KiCad, Fusion360

- Designed schematics which include circuit protection, voltage regulation, and the LED matrix
- Created custom footprints in Fusion360
- Used the KiCad PCB editor to design the printed circuit board

Note: More projects are on display on my Github.