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Adrien Mery

Self-led Computer Eng. student looking for a Software Co-op (12-16 months, May 2023 - Sep. 2024).

Education

Bachelor of Applied Sciences and Engineering   **2020-2025**

· Major in Electrical and Computer Engineering + PEY Co-op, University of Toronto
· Minor in Artificial Intelligence and Machine Learning
· Relevant courses: Software Design & Communication, Computer & Programming Fundamentals, Algorithms & Data Structures, Operating Systems, AI, ML Deep Learning, Engineering Economic Analysis

Skills

· Applications: Microsoft Office suite (Teams, Word, Power Point, Excel), Android Studio, Git, Quartus
· Programming: C, C++, Java, Python (NumPy & PyTorch), JavaScript (React, React Native), ARM Assembly
· Operating Systems: Microsoft Windows, Linux, UNIX
· Analysis/Simulation: MATLAB, SPICE
· Languages: Native proficiency in French and in English, B2 level in German and Spanish
· Software Design Life Cycle, Object-oriented Programming, Consulting

Work Experience

Associate CE Engineer | FedEx Express | Toronto   **May 2023 – July 2024**

· Develop software to interface between different databases and business systems
· Create automation solutions in Python with a GUI and scripts to save up to 60% of time on brokering tasks
· Analyze data to measure productivity and performance of automations, reporting to management

DTLP Intern | General Electric (GE) Corporate | Toronto   **June -August 2022**

· Researched Auditing processes of GE's Financial Data Lake (FDL) to find opportunities for improvement
· Improved Hash Audit Automation program (in Java) accuracy by 5, saving 500 mins/day of work for DQ team
· Presented my work to management concisely & effectively

Projects

Team Leader | Geolocation of images with CNN | U of Toronto   **Sept. 2022 – present**

· Leading a team of 4 in semester-long design project, to design a Deep Learning algorithm for image geolocation
· Implementing CNN on dataset of Google Street View images taken from locations on adaptively partitioned map
· Presenting results in a report and presentation, using rigorous industry-standard performance measures

Project Manager | Map Application project | U of Toronto   **Jan. 2022 – May 2022**

· Developed app like Google Maps in C++ with 2 partners, using: databases and APIs, pathfinding algorithms, STL templates & data structures to compete for best performance in class, finished 17 out of 100
· Collaborated using Git & code review process, & design & communication skills for large software projects
· Designed Graphical User Interface to search, move, and zoom to any desired location defined in the map

Team Leader | Engineering Strategies & Practice | U of Toronto   **Sept. 2020 - May 2021**

· Led a team of 6 in semester-long design project, improving communication of a non-verbal student
· Implemented design thinking tools & methods, to increase the team's productivity and the quality of our design
· Proposed a clear & sturdy communication software application, adopted by our client

Extracurriculars

Varsity Athlete (Fencing) | U. of Toronto Varsity Blues Team   **Sept. 2021- present**

· Managing time to train for 12+ hours per week in addition to Engineering courses
· Competing at the National Competition of the Canadian Fencing Federation, ranked 30th place

First Aider and Leader for 80 students | U. of Toronto Engineering Integration   **Sep. 2022**

Application Translator | Haven Safe Co. | Toronto   **Aug. 2022**

Volunteer tutor | Humanitarian trip to Ahmedabad | India   **Jan. 2019**