

Amritpal Padda

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Education

Concordia University (2017 - 2021) (Expected)

- Bachelor's Degree in Computer Science

Coursera (2017-2019)

- Cryptography I (Stanford University)
- Machine Learning (Stanford University)
- Introduction to Self-Driving Cars (University of Toronto)

Dawson College (2014 - 2016)

- DEC in Pure and Applied Sciences

Loyola High School (2009 - 2014)

Experience

Software Developer Intern at CAE (September 2019 - December 2019)

- Developed web scraping Python script to generate and visualize dependency graphs for internal software
- Ported internal software and tools from Visual Studio 2012 to Visual Studio 2017
- Developed Python script to compare XML files for changes and generate report

Electrical Systems and Data Acquisition Lead at Concordia Baja SAE (January 2019 - present)

- Develop an STM32 based CAN BUS data acquisition system for our off-road vehicle
 - Led efforts on hardware design and software design as well as lead all implementation and installation
- Develop a database solution to store and visualize testing and engineering data
 - Collaborated with engineering team to determine requirements and use cases
 - Project is currently in development
- Lead implementation of Agile methodologies into project planning
 - Acquired sponsorship for project tracking software
 - Instructed team members on best practices
- Provide programming and technical support to various Capstone (final year engineering) projects, including but not limited to:
 - ECVT: Advised project team on best practices for a real time, embedded control system for the electronically controlled continuously variable transmission
 - Magnetorheological Dampers: Proposed project to Capstone team, and provided preliminary project scope and brainstormed early prototypes

Cyber Risk Analyst at Deloitte Canada (January 2018 - April 2018)

- Participate in the planning of Identity and Access Management projects:
 - Drafting resourcing requirements and project timelines to ensure timely project delivery
 - Creating presentations to demonstrate the impact of Cyber Security initiatives
- Collaborate with project team to draft project deliverables:
 - Drafting project charters, statements of work and work orders
 - Develop cyber security current state assessment reports based on client workshop sessions to identify potential vulnerabilities

Assistant Manager at Clinique Sommeil Santé (July 2013 - Present)

- Lead EMR (Electronic Medical Record) software integration
 - Installed all hardware and software as well as train users
- Ensuring customer satisfaction with both products and services

Skills and Qualifications

Computer Science

- JAVA/C++/Arduino/Python
- CANBUS
- Penetration Testing (Introductory)
- Linux

Languages

- French and English: Fluently spoken and written

Volunteering

Allion After School Program (September 2013 - June 2014)

- Helped elementary students with homework and supervised during break time

Projects at the Gurdwara Guru Nanak Temple (January 2010 - Present)

- Volunteer in the community kitchen
- Various IT related tasks such as troubleshooting wireless projectors to setting up microphones and speakers.