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) ***Ongoing***

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 script to generate and visualize dependency graphs for internal software
- Ported internal software and tools from Visual Studio 2012 to Visual Studio 2017

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
  - Project fulfilled in a management role.
    - Collaborated with engineering team to determine requirements and use cases
    - Assembled and recruited development team
    - Currently leading the solution onboarding and integration phase of project
- 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 and the capabilities of Deloitte's cyber security practice
- Collaborate with project team to draft project deliverables:
  - Drafting project charters, statements of work and work orders to illustrate project progress to Deloitte clients
  - Develop cyber security current state assessment reports based on client workshop sessions to identify potential vulnerabilities

Assistant Manager at Clinique Sommeil Santé *(July 2013 - January 2018)*
- Entering daily invoices and payroll into Simply Accounting
- 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.