

Robin Goyal

SOFTWARE DEVELOPER

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Education

BACHELOR OF ENGINEERING, MECHATRONICS, MINOR IN BUSINESS

Graduated: April 2019

MCMASTER UNIVERSITY, HAMILTON, ON

- **Courses:** Engineering Computation, Computer Networking, Embedded Systems, Digital Logic Design

Skills

Languages Python, C, Javascript, SQL, HTML, CSS, Verilog, PowerShell, VBA

Software Bash, Git, GitHub, Flask, Markdown, LaTeX

Work Experience

SOFTWARE DEVELOPER

Jun. 2019 - Present

NATIONAL DEFENCE, OTTAWA, ON

ENGINEERING COMPUTATION TEACHING ASSISTANT

2018 - 2019 (Seasonal)

MCMASTER UNIVERSITY, HAMILTON, ON

- Hired three terms as an undergraduate teaching assistant for a first year Engineering course
- Taught first year students computer science fundamentals with **Python**
- Provided constructive feedback to students, assistance during labs, graded assignments and invigilated tests

SOFTWARE DEVELOPER

May 2018 - Aug. 2018

NATIONAL DEFENCE, OTTAWA, ON

- Integrated solution into existing framework to automate data collection using **Python**
- Utilized network inspection tools and protocol analysis to learn about **HTTP** requests and responses
- Reverse engineered platform to determine API endpoints for automated data collection

IT SOFTWARE ENGINEER

Sept. 2017 - Dec. 2017

GENERAL DYNAMICS MISSION SYSTEMS, OTTAWA, ON

- Automated process for IT department's Wintel server build using **Powershell** by 60%
- Installed and configured IT automation tool, **Puppet** for state management of **IIS Servers**
- Prepared a presentation to train senior-level staff on department's new server data monitoring tool, **Splunk**
- Improved and enhanced functionality to existing web application using **Javascript, JQuery, HTML, CSS**

Personal Projects

CHESSMATE

- Effectively collaborated with a team of 6 for final year Engineering Capstone project
- Designed a robotic system to play a physical game of chess against a human player in **Python** and **C++**
- Utilized pixel counting algorithms to determine the move made by the player in long algebraic notation
- Implemented an algorithm to verify and validate the player's move as a valid chess move
- Established system for communication between **Raspberry Pi** and **AWS** server