Patrick Huang

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EDUCATION
University of Ottawa. 2018-2020. CGPA: 8.68/10
BASc in Biomedical Mechanical Engineering
BSc in Computing Technology

Languages: Python, Java, Javascript, Lua, Arduino, C++, C#, MATLAB

PROJECTS
CTO - RentApps. Cofounder, ON 8/20 - 9/20
Created an android application that attempts to standardize the leasing process, by allowing landlords to view general lease applications. The application was made using ReactNative and MongoDB.

Creator - Python Pathfinder Algorithm. Independent, ON 8/20 - 8/20
Modelled a program that finds the shortest path between a given start and end point using Dijkstra's algorithm. The algorithm was able to be visualized effectively by utilizing the pygame module in Python.

Creator - Python Sudoku Solver Algorithm. Independent, ON 8/20 - 8/20
Developed a project that takes a 9x9 sudoku board as input, and solves it completely by utilizing the backtracking algorithm. The program was then implemented into a React.js framework for interactivity.

Arduino Software Lead - uOttawa Biobuddy Competition 2020. ON 1/20 - 9/20
Integrated an Arduino-based dog collar that utilizes an accelerometer to track its steps.

EXTRACURRICULARS
Director of IT - uOttawa Mechanical Engineering Student Society. **Javascript**, 8/20 - 9/20
Developed a login system for the MESS website and maintained the website, using React.js and SQL.

VP Technology - uOttawa Engineers Without Borders. **Java and Javascript**, 8/20 - 9/20
Designed a website for the University of Ottawa Engineers Without Borders website using React.js.
Led the development of the EWB App, which was made using Android Studio.

Electrical Subteam - uOttawa Bionics. **Arduino**, 9/19 - 4/20
Contributed to the construction and continuous testing of a biomedical hip prosthetic, which was intended to assist the elderly. Hardware included Arduino to produce a cost-efficient model.

CERTIFICATIONS
CS50: Intro to Game Design Certificate. Lua and C#, Harvard 8/20
Utilized Lua and C# by applying them to weekly coding projects including Super Mario Bros and Portal.

MISCELLANEOUS
Competitive Chess, Chess Tutor, Engineering Tutor, Korean Language