Alex Shevchuk

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alxshev

Skills

C, Python, Java, JavaScript, Machine Learning, REST, Git
C++, SQL, MATLAB, React, Arduino

Education

Major in Physics & Computer Science | UBC — **June 2020 – now, GPA TBD**

Courses in Physics & Computer Science | University of Toronto — **Sep 2019 – April 2020, GPA 4.0**

Software Developer | U of T Neurotech Club — Jan 2019 - May 2020

- Worked with ***Python*** server software used to process signals from EEG headset and make inferences for use by other applications (typing keys on a keyboard, namely).
- Learned various ***machine learning*** techniques used to extract results from EEG data (neural networks, CNNs, SVMs, PCA analysis, K-means clustering, logistic regression)
- Implemented ML algorithms above using Python and MATLAB

Liquid Rocket Propulsion Developer | U of T Aerospace Team — Sep 2019 - May 2020

- Developed module analyzing fuel pressure drop across rocket piping systems with 98% accuracy using scientific computing Python libraries (NumPy, SciPy, MatPlotLib) and ***MATLAB***
- Extended and tested large scale propulsion simulation software using ***Git/GitHub*** for collaboration

Software Developer Intern | UVIC Innovation Centre — June 2018 – Sep 2019

- Developed front & back end for system managing business competitions using ***WordPress*** plugins and working with ***REST APIs***
- Created city-wide network website connecting 80+ entrepreneurs with mentors using ***PHP***, ***MySQL***, and ***React***
- Worked in ***UNIX*** environments, wrote ***bash*** scripts for Linux servers, and developed REST web services for a ***Google Cloud*** machine

Personal Projects

Robot Alarm System | Arduino, Raspberry Pi, Python/C

- Got a top place in a hackathon with 50+ teams by building from scratch a Roomba-style alarm system in a team of 4 engineers
- Developed and tested breadboard digital electronic circuits involving sensors, actuators, motors, and input devices
- Programmed ***Arduino*** microcontroller which used ***I2C*** communication.
- Wrote voice control interface for robot using Python, a ***Raspberry Pi***, and Google's Speech Recognition API

Connect the Dots Mobile App | Java, Android Studio

- Developed Piano Tiles-style native Android app in Android Studio using ***Java***
- Gained experience with multithreading and concurrency