

Bill (Yuan Hong) Sun



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billyhsun.github.io/portfolio

Skills Summary

- Proficient in Python with 4 years of experience; Familiar with C, C++, JavaScript, HTML/CSS, MATLAB, and Verilog.
- Experienced in front-end development, mobile app development (React Native), web development, UX & UI design.
- Certified in using cloud computing applications with AWS.
- Experienced in applying the engineering design process.
- Familiar with basic machine learning algorithms and using platforms such as TensorFlow and Scikit-learn.

Professional Experience

University of Toronto Transportation Research Institute

May—Aug. 2017

Research Assistant, Data Analyst—Transportation Modelling Group (Prof. Eric J. Miller)

- Analyzed path data from transportation path choice modelling of the Greater Toronto Area
- Developed Python programs to analyze and compare data sets
- Implemented data structures including tries
- Observations were useful for improving the model and further research

Content Hosting and Streaming Application

May 2018—Present

Bible China Bridge

- Using React Native platform with JavaScript; compatible for both iOS and Android
- Allows users in China to download, play, or stream content without censorship

Parking Manager Application Simulator

Jan—Mar 2016

- Used C++ to create a prototype of a parking space booking / manager application
- Graphical interface that allows users to view, select, and book parking spaces
- Allows managers to monitor status of each car and parking space

Boxhead Video Game

Jan—Mar 2015

- Used Python and Pygame modules
- A replica of the online video game *Boxhead*

Education

University of Toronto, Faculty of Applied Science and Engineering

Toronto, ON

B.A.Sc. Candidate in Engineering Science, Major in Machine Intelligence

Sep. 2016—Jun. 2020
(Expected)

- Completed an extensive **engineering design** course called Praxis, which involved **solving a real-life engineering problem** in the GTA
- Completed a course that involves the design and building of an **autonomous robot**
- Courses in **algorithms & data structures, statistics, digital logic, and computer organization**

Earl Haig Secondary School

North York, ON

Ontario Secondary School Diploma (OSSD)

Sep. 2012—Jun. 2016

Awards and Achievements

- AWS Certified Solution Architecture - Associate August 2018
- U of T Delta Tau Delta Scholarship (Amount: \$3000) October 2016
- SAS Certificate of Completion June 2016