Bill (Yuan Hong) Sun

📞 (647) 987-3896   ✉ billyuanhong.sun@mail.utoronto.ca   🌐 github.com/billyhsun
billyhsun.github.io/portfolio

Highlights

- 4 years of experience in Python; Familiar with C, C++, JavaScript, Java, HTML/CSS, MATLAB, and Verilog
- Experienced in front-end development, mobile app development, and web development
- Working towards a certification in AWS Solutions Architect - Associate
- Experienced in applying the engineering design process, Agile methodology, and DevOps
- Familiar with ML algorithms & neural networks and using tools such as PyTorch, TensorFlow, Pandas, and Sk-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 parse, analyze, and compare data sets
- Implemented data structures including tries
- Observations were useful for improving the model and further research

Gospel China Bridge—Content hosting and streaming application   May 2018—Present

- Using React Native with Node.js; connected to content hosted on HTTP server
- Allows users, to stream, watch, or listen to Sunday sermons in audio and video format
- User can manage downloads locally

Chayah—A social media platform for community **outreach**   July 2018—Present

- Using React Native with Node.js; connected to data hosted on mySQL database
- Allows users to host community events and help out others through requests

Parking Manager Application   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

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)

- Currently taking a course that involves an applied deep learning project
- Completed a course that involves the design and building of an autonomous robot
- Completed a course that involved solving a real-life engineering problem in Toronto
- Courses in algorithms & data structures, ML, stats, digital logic, and computer organization

Earl Haig Secondary School   North York, ON
Ontario Secondary School Diploma (OSSD)   Sep. 2012—Jun. 2016

Awards and Achievements (Add Interests/Hobbies section)

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