Bill Ang Li

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University of Toronto
Sep. 2017 – Present (expected Jun. 2021)
BSc Candidate (Specialist in Computer Science, Minor in Economics)
Cumulative GPA: 3.79/4.0

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, C#
Tools: Git, Linux, HTML, CSS, Vue.js, NumPy, Pandas, OpenCV

WORK EXPERIENCE

Data Engineer Work Study Student   *2018-05 - 2020-04*
Toronto General Hospital, Toronto, ON
- Automated web traffic metric reporting using **Python**, including data collection, processing and analysis
- Led team in the design and implementation of a **provincial clinical tool** that recruits potential organ donors
- Managed over 20 **Python** scripts to ensure daily data delivery to the research team
- Improved reliability of the data scraping and processing scripts by creating diagnostic tests
- Automated the process for backing up WebEx meeting recordings on Vimeo using **Python**

Software Developer Intern   *2019-05 – 2019-08*
Bank of Montreal, Toronto, ON
- Created a **C#** application for checking data integrity in an **in-memory data grid** (GemFire)
- Laid groundwork for migration from Netezza to Greenplum databases to improve performance for the production support team
- Debugged and expanded an **F#** build tool for packaging and deploying code used by the Middleware team

SELECT PROJECTS

Cross-platform Productivity Tracker   *2020-07 – Present*
Open-Source Project Contributor, Toronto, ON
- Built web application UI features using **Vue.js**, **JavaScript** and tested using **Jest**
- Created intuitive user interface by changing misleading input fields

Restaurant Inventory and Staff Manager   *2018-02 – 2018-03*
Class Project, Toronto, ON
- Implemented client-server API architecture to view and change inventory, employee information and seating availability in **Java**
- Created a queue-based event processing data structure in the backend

AWARDS

Collaborative Textbook   *2018-11*
Facebook Global Hackathon Finals 2018, Menlo Park, CA
- Created backend API using **Java** Spark Framework and added spam detection using Azure Cognitive Services

Gesture-based Musical Instrument   *2018-09*
1st Place Facebook Demo at Hack the North 2018, Waterloo, ON
- Co-implemented the convex hull algorithm to detect hand gestures to play music using **Python**

Spotify Song Recommender Based on User Mood   *2017-11*
Best Use of Innovative AI at Hack Western 4, London, ON
- Trained a machine learning algorithm to recommend Spotify playlists based on emotions detected on the Muse headband using **Python**

Vacant Library Seat Detector   *2017-08*
1st Place at Hack the 6ix 2017, Toronto, ON
- Created a computer vision algorithm to detect empty seats from video in real-time using OpenCV in **Python**