Will Lu

Technical Skills
Python, Java, Git, SQL, Javascript, Tableau, Kotlin, React, Flask, Matplotlib, Numpy, Pandas, HTML, CSS, Scheme/Racket, Excel

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Work Experience

Royal Bank of Canada Wealth Management Analytics
Software Developer Intern — July - September 2018
- Led the development of an internal employee time entry and analysis web app using Python, MS SQL, Javascript, Flask, Matplotlib, Pandas, and HTML
- Developed a Github issue tracker interacting with Github and Zenhub APIs for internal team use with Python, MS SQL, and Tableau
- Tracked, analyzed, and visualized 9000+ issues over 3 years from 20+ employees

University of Waterloo Midnight Sun Solar Car Team
Strategy Subteam Software Engineer — September 2019 - Present
- Organized and analyzed kilometers of real-time race track elevation data to optimize car velocity using a mathematical car model, implemented in Python
- Reduced energy use by 25% by programming physics based kinematics equations

Projects

Tsensum — Hack the North Indico API Prize Winner
- Built a web app to visualize sentiment analysis of Twitter keywords with the Indico Machine Learning API, using Python, Matplotlib, and Flask
- Led the front end UI development to visually plot results on user searches using Javascript, Bootstrap, HTML, and CSS

Allegro
- Developed an Android app that matches user running pace with songs from Spotify using Kotlin, Android Studio, and the Spotify API
- Implemented Spotify authentication allowing user control of music playback

BetterBettingBot
- Designed a Slack betting bot that creates and manages wagers using Python
- Built data storage infrastructure using Standard Library Slack Database API

Volunteer Experience

University of Toronto Schools DECA
Co-President (2018/19), Executive (2017/18) — October 2015 - June 2019
- Led a team of 10 chapter executives in managing the school DECA chapter of 135 students by leading meetings and communicating with staff advisors
- Coached junior members, qualifying 50% to international competition

Certifications
- AWS Certified Cloud Practitioner — 2019
- Canadian Securities Course — 2019

Achievements
- Senior Canadian Computing Competition Honor Roll & Certificate of Distinction — 2018
- Hack the North: Indico API Prize Winner — 2018
- Euclid Mathematics Contest Certificate of Distinction — 2018
- DECA: 4th Internationally, 1st Provincially — 2018/19
- Junior Canadian Computing Competition Certificate of Distinction — 2017

Scholarship
- University of Waterloo — 2019
  - Randall J. Howard Entrance Scholarship
  - President's Scholarship of Distinction
- University of Toronto Schools Bronze Medallion — 2019
  - Outstanding extracurricular participation and leadership

Education
University of Waterloo — 2024
Computer Science, Co-op
CS135: 100%, Avg: 95%

University of Toronto Schools — 2019
High School