

Charlie Lin

Toronto | (647) 970-3360 | hlin266@uwo.ca | [linkedin.com/in/charlielin10](https://www.linkedin.com/in/charlielin10) | github.com/charlielin99

EDUCATION

University of Western Ontario

London, Ontario

Bachelor of Engineering Science, Software Engineering

2017 – 2022

- Advanced Entry Opportunity to **Ivey Business School** for an Engineering/Business Dual Degree
- **Skills:** Java, Python, C++, C#, HTML/CSS, JS, Node, React, Express, MongoDB, SQL, Swift, Angular
- **Awards:** 1st Hack NYU (Startup), 1st Shopify Case Competition, 4th Western Engineering Competition
- **Courses:** Deep Learning (Andrew Ng), Algorithms (Princeton), Data & Algos (UC San Diego)
- **Notable Scholarships:** President's Scholarship of Distinction to University of Waterloo Software Engineering and Computer Science Programs (Declined Offer)

NOTABLE TECHNICAL PROJECTS

Phormatics | github.com/charlielin99/phormatics

Python (Tensorflow) & Javascript, 2018

- Built using AI and computer vision; virtual trainer using live pose estimation to correct workout form
- Incorporated an intelligent scheduling chatbot and Facebook API in a beautiful frontend on Flask
- Performed research on the OpenPose model architecture and its incorporation of multi-stage CNN

AccClimb

Swift, 2018

- Creating a battery/motor attachment app system to propel non-powered wheelchairs up inclines

Battle Tetromino | github.com/charlielin99/Battle-Tetromino

Java, 2017

- Designed a Tetris game with local single/double player, online PVP, and a server hosted chat room
- Worked in a team of two to create a game playing algorithm based on the four heuristics of Tetris

WORK & LEADERSHIP EXPERIENCE

Firmwater Inc.

Toronto, Ontario

Full Stack Software Developer

May 2018 – Current

- Exploiting C#, .Net Core and React to develop a Shopify events app & CAAS (Content as a Service)
- Writing SQL stored procedures, designing new web views, and modifying backend MVC
- Implementing a RESTful API with heavy incorporation of dependency injection/load balancing

North South Management

Toronto, Ontario

Business Data Analyst

January 2018 – April 2018

- Identified best retail market predictive model among implementations of linear/SVR w/ cross validation
- Reduced model error by 40% by using a warm-start regularized multivariable regression in scikit-learn
- Clustered 5000+ customer reviews on client product using tf-idf and k means using beautiful soup
- Performed strategy pitches w/ mined data for portfolio companies to bolster value in upcoming IPOs

Western Founders Network

London, Ontario

Vice President of Education

September 2017 – Current

- Leading AI/Machine Learning courses on behalf of Western University's largest technology club
- Planned the IBM x CIBC *Technology Consulting Competition* for 500+ students from 10 universities
- Acquired sponsorships/ticket sales worth over \$11,000 (300% growth from previous year)
- Utilized cold emails and conference calls to acquire workshop speakers from Google & Microsoft

Airbnb

London, Ontario

Pro Bono Consultant

March 2018 – April 2018

- Pitched a holistic solution in revamping Airbnb's services for business/workplace travels
- Performed projections that would allow top-line revenue to grow 1.3x in the Canadian market

CERTIFICATIONS, LANGUAGES & INTERESTS

Certifications: National Lifeguard, Private Pilot License, RCM Grade 8 Piano, Duke of Edinburgh Bronze

Languages: Fluent in English and Mandarin, Working knowledge of French

Interests: Public Speaking, Investing, Soccer, War History, Space Exploration, Coin Collecting