

Eric (Yi Hang) Liu

1B Honours Computer Science and
Business Administration Double Degree
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Summary of Qualifications

- Strong foundations in software development, implementing efficient algorithms/data structures, server-side development and interface design
- Learns and masters new languages and frameworks quickly from working on a diverse set of projects
- Thrives under pressure from experience in hackathons and projects with tight deadlines

Education

Candidate for Bachelor of Computer Science

University of Waterloo, Waterloo ON
September 2016 – Present
Degree Expected: 2021

Candidate for Bachelor of Business Administration

Wilfrid Laurier University, Waterloo ON
September 2016 – Present
Degree Expected: 2021

Experience

Camp Counselor, YMCA Summer Work Exchange

July 2016 – August 2016
Worked in a team to provide recreational activities for children, developed communication skills as an exchange student.

Team Leader, Victoria Park FIRST Robotics Club

September 2013 – May 2016
Led team of high school students in competition to fully design an industrial-sized robot. Designed team website using Wordpress and PHP.

Awards

PepsiCo Pitch Competition Semi-Finalist	February 2017
University of Waterloo	
President's Scholarship	May 2016
Loran Award Semi-Finalist	May 2016
Duke of Edinburgh Award, Gold	May 2016
Duke of Edinburgh Award, Silver	March 2015
Duke of Edinburgh Award, Bronze	January 2014

Skills

- Most experienced and fluent in Java, Python, C/C++, JavaScript, HTML and CSS
- Familiar with jQuery, Node, Express, Angular, React, MongoDB, Django, Flask, Bootstrap, MySQL, PHP, Git and Microsoft Office
- Worked with Firebase, Android Studio, JavaFX, NLTK, Digital Ocean, Heroku/Salesforce, (Natural Language Processing Toolkit for Python) and TensorFlow

Projects

Algorithm Helper

February 2017

Online educational reference tool using Django and MongoDB to help programmers learn algorithms, successfully implemented optimized Wagner-Fischer algorithm to display search results efficiently

Newstream (PennApps)

January 2017

Web application using Flask, News API, Twitter API and NLTK to aggregate trending news and visualize sentiment analysis data from news articles in a user-friendly interface

Differentio

December – January 2017

Web application using Django, Firebase and NLTK for datamining Alibaba and eBay to visualize changes in price differentials between wholesale and retail prices of a certain product over time

ResidenceFlow (Hack the Valley)

January 2017

Web application using NodeJS, Express, Angular and MongoDB as an online platform for better managing residential and commercial properties, successfully implemented Gale-Shapley algorithm to match students with residence placements efficiently

Softcare

September 2016

Desktop application using JavaFX and MySQL to help staff at the Holland Bloorview Kid's Rehabilitation Hospital plan activities for children with special medical needs more efficiently, successfully implemented Dijkstra's algorithm to plan transportation routes to and from activities