Lucy Yu

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LANGUAGES

C/C++, Python, Java,
Javascript, Racket, bash

FRAMEWORKS

Web: Node.js, Express,
Bootstrap, Jekyll, Flask

Database: MongoDB,
SQLite, SQLAlchemy

Mobile: React Native,
Android

EDUCATION

University of Waterloo
Bachelor of Computer
Science (2014 – 2019)
3.88 GPA

AWARDS

Dean's Honours List
(Winter 2015 – Present)

President's Scholarship
of Distinction
(**95%+** entrance avg)

Top 10% in Euclid
Mathematics Contest

Top 14% in Sir Isaac
Newton Physics Exam

EXPERIENCES

Software Engineering Intern | Yelp — Sep – Dec 2016
San Francisco, CA

Python, mrjob, Amazon Redshift and S3, Apache Cassandra, SQLAlchemy

- Conceptualized and built from scratch, a system for storing and analyzing the search engine rankings of experiment cohorts, which yielded data that was previously unattainable and highly demanded by other teams.
- Implemented an internal linking SEO experiment on Yelp's business pages by designing database schemas and writing clients for storing the links, and writing batch jobs that predetermined the links.

Software Engineer | TheRedPin.com — Jan – Apr 2016
Toronto, ON

React Native, Node.js, Express, Bootstrap, jQuery, Salesforce (Apex, Visualforce)

- Designed, built, and tested a Search Engine Marketing site (frontend + backend) where $1M of annual advertising traffic will be sent to.
- Led the development of a React Native app designed for real estate agents using the Salesforce Mobile SDK.
- Developed a messaging service with Twilio and Google Places API for mailing list registration and neighbourhood info inquiry at open houses.
- Wrote a Node.js web service that syncs Facebook leads to Salesforce.

Software Engineer | TheRedPin.com — May – Aug 2015
Toronto, ON

Salesforce (Apex, Visualforce), Excel VBA

- Automated business analytics processes that previously costed the organization over $100K annually.
- Built a cohort analysis model for lead tracking and analyzing the effectiveness of marketing channels in Salesforce.
- Developed a unit economics model in Salesforce assessing the cost effectiveness of cohorts across marketing channels.

Backend Developer | Hack the North — Mar – Nov 2016
Waterloo, ON

Python, Tornado, SQLAlchemy

- Organizer for Canada's largest international hackathon.
- Built logistics tools and analytics features for the internal team dashboard.
- Built and refactored API endpoints to accommodate 5000+ hackathon applicants and 1200 attendees/sponsors/judges.

HACKATHON PROJECTS

Watchr — Hack Princeton — Apr 2016
Node.js, socket.io, Google Maps API, Android

A crisis management system that issues evacuation alerts and estimates the location of suspicious sound activities using data gathered from mobile devices. Winner of the $500 Most Socially Impactful prize.