Chandler Lei

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PROFILE

I am an aspiring software engineer with comprehensive experience shipping products from design to deployment

EDUCATION

University of Waterloo

3rd Year Computer Engineering

Sep 2017 – present

- Candidate for BASc, cGPA of 3.88 (90.30%)
- Relevant Coursework: Systems Programming + Concurrency, Instrumentation + Prototyping, Embedded Systems, Data Structures/Algorithms

SKILLS

Languages

Python, JavaScript, C/C++, Ruby, Java, GraphQL, SQL, HTML, CSS, XML, MATLAB, SAS

Frameworks/Libraries

React, React Native, Redux, Apollo, Axios, Django, Graphene, Ruby on Rails, Bootstrap, jQuery

Other

Linux, Git, SVN, PostgreSQL, MySQL, Salesforce, Heroku, Netlify, CircleCI, Postman

AWARDS

Big Data Challenge Data Science Award

Feb 2017

BDC Hackathon Winner

Mar 2019

4 Times UW Term Dean's Honours List

1A, 1B, 2A, 2B

WORK EXPERIENCE

Secret Mission Software

Software Developer: React, React Native, Redux, Django, Graphene, Apollo

Sep 2019 – present | Toronto, ON

- Introduced **Graphene** queries and mutations and implemented **GraphQL** calls and **cache** updates through **Apollo**
- Enhanced functionality of CSV and XML data parser that created/updated **Django** model instances, adding new features and reducing bug reports by **90%**
- Added **redux reducers** and **actions** to update store and re-render components

Lending Loop

Software Developer: Ruby on Rails, Salesforce, Heroku

Jan 2019 – Apr 2019 | Toronto, ON

- Increased user signup completion rate **30%** by solely implementing a new signup flow (**models**, **controllers**, forms/**views**)
- Improved database efficiency by decreasing query times **50%** for specific data queries through refactoring of model relationships and data fields
- Created a **REST API** endpoint that automated user emailing using SendGrid

Bank of Montreal

Infrastructure Engineer: Bash, DataPower, Ansible, Bamboo

May 2018 – Aug 2018 | Toronto, ON

- Elevated the functionality of the **IBM DataPower** system by creating **Bash scripts** for certificate uploading

PROJECTS

Spotify-Tracks

Sept 2019 | React, Spotify Web API, Chart.js, Bootstrap, Netlify

- Implemented statistics and **data visualizations** of a user's Spotify play history
- Designed a **responsive UI** with data propagation through **props** and **Context API**

UWSublet

Jun 2019 | Ruby on Rails, Google Maps API, Bootstrap, Heroku

- Integrated **Google Places API** to display maps and calculate listing distances
- Delivered an in-app communication system powered by comments/notifications

Bike Safe

Jul 2019 | C, TI MSP430, DriverLib, DipTrace, Soldering

- Initialized communication between hardware (ultrasonic distance sensor, LEDs, LCD display) and **microcontroller** through **DriverLib**

COMPETITIONS

Business Development Bank of Canada Hackathon, Winner

Mar 2019 | Montreal, QC

- Cached user browsing history with **Redis** and provided personalized product suggestions using **scikit-learn**