

# Yifan Dai

SOFTWARE ENGINEER · FULL STACK DEVELOPER

552 Winterburg Walk, Waterloo, Ontario, N2V 2N9, Canada

☎ (+1) 226-606-8869 | ✉ yfjd01@gmail.com | 🌐 www.yifandai.ca | 📱 yfjd01 | 📺 yfjd01

## Skills

---

**Languages and Platforms** Java, C++, Node/JavaScript, Python, Ruby, PHP

**Frameworks and Tools** Spring, ReactJS, EmberJS, Rails, MongoDB, Elasticsearch, Flask, PostgreSQL, Oracle, Redis, Docker

## Experience

---

### Mappedin

Waterloo, Canada

FULL STACK DEVELOPER

June. 2018 - Current

- Developed fullstack solutions in React.js components and API endpoints with Express.js, Node.js and MongoDB on an indoor map editor content management system.
- Developed a back-end service which composes and exports geojson data to Apple's Indoor mapping format with the use of Express.js and Kafka
- Developed a micro service which parses and imports and parses CAD files into Geojson map data, for external customer use

### Amazon - AWS Elastic Load Balancing

Seattle, USA

SOFTWARE DEVELOPMENT ENGINEER INTERN

Sep. 2017 - Dec. 2017

- Architected and implemented a package manager tool in Python to assist engineers in easily building integration logic, configurations, tests, and canaries to streamline the development process.
- Developed a data surveillance system that scrapes database clusters to generate a collective view of all load balancing systems with Java Spring and Rails.
- Reduced both root cause analysis time and debugging time by at least 20% for all Network Load Balancing oncall engineers.

### Amazon - AWS Elastic Load Balancing

Seattle, USA

SOFTWARE DEVELOPMENT ENGINEER INTERN

May. 2017 - Aug. 2017

- Architected and implemented a database performance monitoring service for an atomic-distributed database system.
- Developed a service that performs database load analysis, under tight performance and space constraints, accommodating for world-wide load balancing systems in Java Spring to deploy of Elasticsearch and Kibana.
- Improved transparency of a NoSQL database by prototyping, designing and implementing a large-scale monitoring solution.

### Bidvine

London, UK & Kitchener, Canada

FULL STACK DEVELOPER CO-OP

May. 2016 - Aug. 2016

- Developed solutions to front-end problems using Ember.js, Foundation, CoffeeScript, Ajax, HTML5, and Sass
- Created Bidvine's smart service search function by integrating the Elasticsearch.js API.
- Created new RESTful API endpoints using Node.js, Express.js and PSQL which improved API response time by more than 50%.

### Blackberry - Device Analytic Team

Waterloo, Canada

SOFTWARE ENGINEER CO-OP

May. 2015 - Aug. 2015

- Developed an internal data visualization web application on an Oracle database with Flask and Panda in Python.
- Developed a data migration service from an Enterprise Oracle database to Elasticsearch clusters with Python and Logstash and created data visualizations with Kibana

## Leadership Experience

---

### WearHack Waterloo

Waterloo, Canada

LEAD ORGANIZER & FRONTEND DEVELOPER

Jun. 2016 - Jun. 2017

- WearHack promotes innovation, entrepreneurship, and education in the Internet of Things and wearable technology.
- Led development on web applications with ReactJS for participant registration and team dashboards.

## Education

---

### University of Waterloo

Waterloo, Canada

BACHELOR OF COMPUTER SCIENCE / SOFTWARE ENGINEERING OPTION

Sep. 2012 - Jun. 2018

