# YIFAN DAI

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## Skills

**LANGUAGES:**

Java
JavaScript
Python
C
C++
CSS
PHP
Bash
Assembly

**FRONT END WEB:**

AngularJS
EmberJS
ReactJS
HTML5
JQuery
Bootstrap
Foundations

**BACK END WEB:**

Node.js
Spring
Flask
Rails

**DATABASES/STORES**

PostgreSQL
Oracle
MongoDB
Redis

**RELEVANT COURSES**

Data Structures
Operating Systems
Object Oriented Programming
Algorithms
Databases
User Interfaces
Compilers
Functional Programming
Distributed Systems
Software Specifcations
Software Design
Software Testing

**HOBBIES**

Long Distance Running
Fitness
Photography

## Education

**University of Waterloo**
BCS 4B Computer Science/Software Engineering Option, Honours Program 2018

## Experience

### AMAZON WEB SERVICES
Seattle, WA
*Software Development Engineer Intern (8 Month)* — May 2017 to Current
• Part of the AWS EC2 Elastic Load Balancing Team
• Prototyped, designed and implemented a large-scale highly extensible, monitoring and logging solution for an internal NoSQL database product, aimed at improving visibility for a critical system for our customers.
• This project involved deep-diving into EC2 ELB infrastructure, performing database load analysis, working under tight performance and space constraints, accommodating for legacy systems and different use case scenarios, and writing an extensive amount of unit and integration tests.
• Currently designing and developing a front end service with Atlas and Rails to scrape various Elasticsearch clusters to provide customers with an in-depth unified scope of internal services.

### BIDVINE
Waterloo, ON
*Full Stack Developer* — May 2016 to Sep 2016
• Developed various back-end features such as daily cron jobs that helped maintain our PostgreSQL database and to send reminders to our customer.
• Created new RESTful API endpoints using Node.js, PostgreSQL, and Sequelize,
• Created reusable front-end components Ember.js, Foundation, Ajax, and HTML5,
• Significantly improved the searching function on Bidvine by integrating the elasticsearch.js API,
• Designed and implemented a Pokemon GO feature to our services which gained an approximate 10% increase in website traffic and was later featured on Kotaku,

### BLACKBERRY
Waterloo, ON
*Software Engineering Intern* — May 2015 to Sep 2015
• Developed various features for an in-house web application that provides a user-friendly interface with the Oracle database employing AngularJs and Flask. The application provided business applications and dashboards that impact decisions made within the Quality department.
• Help design and develop a Python API that performs CRUD operations on various database objects.
• Performed various experiments in order to research and evaluate solutions for building a data mining platform - the tests covered everything from designing easy user interfaces to the technical considerations.

### SUN LIFE FINANCIAL
Toronto, ON
*Full Stack Developer* — Sep 2014 to Dec 2014
• Worked as a Full-stack developer with the digital enterprise team.
• Designed and built a spreadsheet application for configuring an enterprise service for human resource allocation using skills in Java, Spring MVC and JQuery and Bootstrap.
• Worked with open-source libraries to generate compliant CSVs, XMLs and PDFs.

## Projects

**WEARHACK - Event Organizer / Developer**
• A nonprofit organization with the ambition to create a stronger tech community in Waterloo and Canada. WearHacks is among Canada's most anticipated hackathons, with over 500 attendees.
• Contributed to the daily development on web applications with ReactJs, Express, and Node.js for participant registration, team dashboard, and various internal tools.

**QuikList**
• QuikList is a web application, built at Hack the North 2015, which allows users to enter a list of items in their shopping list. The service generates a map which provides the most optimized route to all items on the list, employing JavaScript, Machine Learning and FireBase, winning an innovation prize at Hack the North Waterloo.

**PPDM - Python Analytics**
• A library that can quickly allow users create various types of graphical representation with any data.
• PPDM is Python-based library that allows users to query data from an Oracle Database using the Logstash, ElasticSearch, KibanaStack (ELKStack).