

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 Specifications

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

Software Development Engineer Intern (8 Month)

Seattle, WA

May 2017 to Current

- Part of the AWS EC2 Elastic Load Balancing Team
- Improved transparency of an internal NoSQL database product by prototyping, designing and implementing a large-scale, highly-extensible monitoring and logging solution
- This project involved deep-diving into EC2 Elastic Load Balancing 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 surveillance system with Atlas and Rails to scrape various Elasticsearch clusters to provide customers with an in-depth unified scope of EC2 Network Load Balancer.

BIDVINE

Full Stack Developer

Waterloo, ON

May 2016 to Sep 2016

- Developed various back-end features which helped with maintenance on our PostgreSQL database by sending daily cron reminders to our external customers.
- 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

Software Engineering Intern

Waterloo, ON

May 2015 to Sep 2015

- Developed comprehensive features for an in-house web page that provides a user-friendly interface with the Oracle database employing AngularJs and Flask for an empirical analysis application.
- Help design and develop a Python API that performs CRUD operations on various database objects.
- Performed comprehensive 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

Full Stack Developer

Toronto, ON

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).