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
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 Atlus and AngularJS 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 end points 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 a 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 perform CRUD operations for 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 spread sheet 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 250 attendees.
• Design and built web applications with ReactJs, Express and Node.js for participant registration, food & hardware management and final judging results.

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

QuikList
• QuikList is a web application, built at Hack the North 2015, which allows users to to enter a list of items in their shopping list. A map was then generated, providing the most optimized route to all items on the list, employing JavaScript, HTML, CSS, FireBase, and Parse.