Vichara Nimnaka Wijetunga

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Programming Skills

Languages: Java, Javascript, C, C++, PHP, SQL, Python

Technologies: NodeJS, ExpressJS, Git, REST, Tensorflow, Firebase, NoSQL, Linux/UNIX, Docker, HTML/CSS

Experience

The Weather Network   Oakville, ON
Software Developer, Web   *May - August 2018*
- Implemented **AMP** (Google's Accelerated Mobile Pages), reducing forecast page load times by **1.5s** (mobile)
- Introduced data aliasing for **PHP** endpoints, reducing API request time by **0.5s** (client side)
- Implemented the **MVC** design pattern for backend API's, using the **CodeIgniter** (PHP) framework
- Built **RESTful API** endpoints for displaying news articles provided by the **CMS**
- Developed test suites (employed **TDD**), using **Jasmine**, **Mocha** and **PHPUnit**, maintaining **80%** test coverage
- Helped migrate unit tests (a stage in the **Jenkins CI** Pipeline) to run inside **Docker** containers

Projects

Housr ⌂
PennApps Project
- Web-app to rank/display nearby real-estate (for sale) based upon three criteria: distance, price, and physical appearance
- Tensorflow **CNN** (custom model) for image recognition, **Node** Server, **Google Cloud API** (maps)

PresentEasy ⌂
Personal Project
- Analyze the sentiment of a user inputted text and find relevant images (useful for presentations)
- **Node** server for API requests, **Firebase** database (accounts), **JQuery/Bootstrap** (frontend)

CryptoConsensus ⌂
Hack the Valley Project, Runner-Up: Best use of Azure
- Crawls Reddit for posts related to a crypto-currency and returns the public opinion of the coin
- **Node** application for Reddit Crawling, **Express** Server, **Azure** sentiment analysis training

StudySpace ⌂
Ryerson Hacks Project
- Android app that allows users to find empty class/lecture rooms that are closest to them at UW
- Used **Android Async Client** to make HTTP requests. Queried data from a **SQLite database**.

Education

University of Waterloo   Waterloo, ON
Bachelor of Software Engineering; CGPA: 3.86   *Sep. 2017 – Present*
- Dean's Honours List

Achievements

Coursera Princeton Algorithms ⌂ : Implemented complex **Algorithms** (A*, Quick Find) and **Data Structures** (Trees)

2016 **SHAD** Carleton participant

Silver and **Bronze** Recipient of the **Duke of Edinburgh Award**

Extracurricular Activities

Dragon Boating Team: Part of the recreational dragon boating team at the University of Waterloo

Software Engineering Representative: Orientation Leader for the incoming SWE class of 2023