

Victor Duan

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Skills

Languages Golang, Java, C/C++, Python, Bash, Javascript

Technologies Git, SQL, Docker, ElasticSearch, Neo4j, jQuery, Apache, Cron

Experience

Yahoo! Inc.

Sunnyvale, CA

SOFTWARE DEVELOPER

May 2017 - Aug 2017

- Implemented a Docker Web API to find dependencies of over 200 000 Docker images
- Designed an architecture for the API that maximizes component isolation
- Created several Golang webserver to serve the API and to index data based on Docker Registry Notifications
- Implemented working prototypes for ElasticSearch and Neo4j to determine a suitable database
- Wrote robust unit tests to ensure functional code during automated testing
- Created components to display a n-ary tree using React

Fundserv Inc.

Toronto, ON

UNIX/WEB DEVELOPER

Sept 2016 - Dec 2016

- Worked on an internal website used by the IT department to visualize information about the company's Solaris and Linux servers
- Automated the server compliance testing process, increasing the testing frequency by over 1000x
- Designed a MySQL database to store individual test results for every server, with local backups created daily via Cron
- Provided summary and detailed reports of the results using Python
- Increased security by configuring Apache server to use LDAP authentication linked with Active Directory

360 Education Labs Inc.

Toronto, ON

FULL STACK DEVELOPER

Jan 2016 - April 2016

- Integrated video Optical Character Recognition using FFmpeg and Tesseract to provide search for slide deck contents
- Implemented a video processor to ensure video captured via mobile played in the correct orientation
- Performed maintenance and bug fixing on the Android and iOS applications

Vitalhub Corp.

Toronto, ON

TECHNICAL QA ANALYST

May 2015 - Aug 2015

- Created more varied and realistic test data by implementing random generation for new fields
- Performed manual QA on the iPhone and iPad apps and filed detailed bug reports
- Simplified the new environment setup process by converting the steps into a shell script
- Made REST calls to verify that information displayed in the app is correct, and created automated test cases for these calls

Projects

Straights

University of Waterloo

A FOUR PLAYER RACE TO EMPTY YOUR HAND

Jul 2016

- Uses the GTK+ library for the GUI, and the Model View Controller design pattern
- Designed with OOP methodologies such as polymorphism, inheritance and abstract classes as a priority

Nameless Resume

DeltaHacks

REMOVE THE NAME FROM A RESUME TO REMOVE BIAS

Feb 2015

- Independently developed a script to take in an HTML formatted resume and censor the name
- Uses file I/O, string manipulation via the string library

Education

University of Waterloo

Waterloo, ON

BACHELOR OF SOFTWARE ENGINEERING

Sep 2014 - Apr 2019 (expected)