

# Victor Duan

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## Skills

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

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

## Experience

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### Uber

*San Francisco, CA*

SOFTWARE DEVELOPER

*Jan 2018 - Apr 2018*

- Independently solved the problem of codeless UI generation for an org-wide initiative to simplify the creation of troubleshooting portals and to introduce troubleshooting chat bots
- Designed a JSON configuration schema to allow for codeless UI generation in multiple output languages
- Implemented a highly extensible UI generator with support for data injection and user-defined functions
- Designed and implemented a new Thrift service to troubleshoot trip issues
- Wrote robust unit tests to achieve and maintain 100% code coverage

### 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 external payloads
- Implemented working prototypes for ElasticSearch and Neo4j to determine a suitable database

### Fundserv Inc.

*Toronto, ON*

UNIX/WEB DEVELOPER

*Sept 2016 - Dec 2016*

- Worked on the IT department's internal site 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

### 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 website and mobile 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

## Projects

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### 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

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### University of Waterloo

*Waterloo, ON*

BACHELOR OF SOFTWARE ENGINEERING

*Sep 2014 - Apr 2019 (expected)*