

# David Zhang

Candidate for Bachelor  
of Software Engineering



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davzhang.me



github.com/davidozhang



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## Languages

Python, C/C++, Java,  
JavaScript, HTML5, CSS,  
SQL, Swift/Objective-C,  
PHP, Shell Scripting

## Databases

MySQL, MariaDB,  
Firebase, SQLite,  
Cassandra, Redis

## Frameworks

Flask, Pyramid,  
AngularJS, Node.JS,  
Cocoa Touch,  
Pebble SDK C/JS/iOS,  
Pygame

## Tools & Libraries

Git, Arcanist, Phabricator,  
SQLAlchemy, Alembic,  
Vagrant, Docker,  
Grunt, Bower, Jasmine,  
XCode, Eclipse,  
Apache Kafka, RabbitMQ,  
AWS SNS/SQS

## Work Experience

### Fullstack Web Developer, OANDA Corp.

Sep 2015 – Dec 2015

- Implemented asynchronous registration process and localization to increase number of new clients by 30%
- Designed custom web dashboards to monitor team agile statistics and improve quality of work in pipeline
- Set up engineering team Vagrant environments, decreased onboarding time by 80%
- Implemented new mobile registration portal prototype, won Most Productizable Hack at OANDA Hackathon

### Backend Web Developer, EventMobi

Jan – Apr 2015

- Implemented RabbitMQ-based queue and concurrent worker system for asynchronous web API
- Developed Flask-based RESTful API services and endpoints to enhance scalability and data monitoring
- Lead the development team in retiring legacy content manager, moved critical business logic into Python API

### SIEM Software Engineer, Trustwave Inc.

Apr – Aug 2014

- Developed Java/Python tools that enhanced management productivity and SIEM Next-Gen testing
- Performed R&D for migration from MySQL to MariaDB and Cassandra, presented in front of entire company

## Recent Projects

*Off The Grid* – Offline, real-time canvas collaboration iOS app using Apple's Multi-peer Connectivity Framework

- MLH Finalist at Hack Western 2

[github.com/davidozhang/off-the-grid](https://github.com/davidozhang/off-the-grid)

*Scarecrow* – Internet of Things home security system made using Touch-ID based iOS app, with Node.JS and Python backend servers running on an Intel Edison board

- 2<sup>nd</sup> Place Overall at Intel IoT Roadshow 2015

[github.com/davidozhang/scarecrow-ios](https://github.com/davidozhang/scarecrow-ios)

*Pebblyrics* – Live lyrics on Pebble with iOS companion app

[github.com/davidozhang/pebblyrics](https://github.com/davidozhang/pebblyrics)