# David Zhang

Candidate for Bachelor
of Software Engineering

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## Languages

Python, C++, Java,
JavaScript, HTML, CSS,
SQL, CQL, PHP, Ruby,
Bash/Shell Scripting

## Databases

MySQL, MariaDB,
SQLite, Cassandra,
Redis

## Frameworks

Flask, Pyramid,
AngularJS,
Pebble SDK,
Pygame

## Tools & Libraries

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

## Work Experience

### Fullstack Web Developer, OANDA Corp.
Sep 2015 - Present

### 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
- Resolved full-stack issues, earned customer appraisal

### 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
- Optimized Trustwave's Kafka-based distributed messaging system for SIEM Next-Gen

## Projects

- Personal Website – Powered by Jekyll
  github.com/davidozhang/davidozhang.github.io
- Slack Open-PR Reminder – Winner of Eventmobi Hackathon
  github.com/davidozhang/slack-reminder
- Restling API – Prototypical, scalable RESTful API
  github.com/davidozhang/restling
- Co-op Network – Prototype LAMP-stack web application for improving co-op job finding experience
  github.com/davidozhang/coop-network
- Codeforces – Implemented solutions to over 100 Codeforces round questions using Python
  github.com/davidozhang/codeforces

## Education

### University of Waterloo
Sep 2013 - Present

- Expected Graduation in 2018