David Zhang

3A Software Engineering

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Languages

Python, Java, C++, JavaScript, HTML, CSS, Swift/Objective-C, SQL, PHP, Bash

Databases

MySQL, MariaDB, Firebase, Cassandra

Frameworks

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

Tools & Libraries

Git, Phabricator, SQLAlchemy, Alembic, Vagrant, Docker, Grunt, Bower, Jasmine, XCode, Eclipse, Sublime, Apache Kafka, RabbitMQ, AWS

Work Experience

Fullstack Web Developer, OANDA Corp.
Sep – Dec 2015

- Implemented asynchronous Angular forms and EID check to speed up registration process by 20%
- Reduced front-end assets to improve registration page load speed on slow Internet
- Designed custom dashboards to monitor team agile statistics and improve quality of work in pipeline
- Set up engineering team Vagrant environments, reduced onboarding time by 80%
- Implemented new mobile registration prototype, won Most Productizable Hack at OANDA Hackathon

Backend Web Developer, EventMobi
Jan – Apr 2015

- Implemented RabbitMQ-based concurrent worker system for asynchronous web API
- Developed REST micro-service endpoints in Flask to enhance scalability and data monitoring
- Led 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 to enhance 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

Snapshop   Jan 2016

- Self-checkout iOS shopping app using Firebase for product lookup and Braintree API for secure payment

Off The Grid   Nov 2015

- Offline, real-time canvas collaboration iOS app using Apple's Multi-Peer Connectivity Framework
- Top 6 Finalist at Hack Western 2

Scarecrow   Nov 2015

- iOS Touch-ID home security app paired with an Intel Edison board running Python and Node.JS servers
- 2nd Place Overall at Intel IoT Roadshow 2015