David Zhang

3A Software Engineering

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Languages

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

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

Work Experience

Fullstack Web Developer, OANDA Corp.
Sep – Dec 2015

- Implemented asynchronous Angular forms and EID check to speed up registration process by 200%
- Reduced front-end assets to improve registration page load speed on slow Internet
- 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 REST micro-service 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   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

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

Pebblyrics   Oct 2015

- Displays live lyrics of iPhone song on Pebble watch