Zheyang Cen

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SKILLS

o Language: Java, JavaScript/HTML/CSS, Python, C/C++, SQL, PHP
o Framework/Library: Spring Boot, React, Angular, Socket.io, Node.js, Express.js,
o Tools: Tomcat, AWS, Gradle, npm, Docker, Git, NginX, Apache, Solr
o Database: DynamoDB, MongoDB, Redis, MySQL, SQLite

EXPERIENCE

Zillow Group   **Seattle, US**
Software Development Engineer   *Jul 2018 - Now*
o Zillow Offer Resale Team.
o Built resale workflow to automate business process. (Java, Spring Boot, Flowable, AWS, Terraform)
o Built web tools for Zillow's resale managers to get, track and process offers more easily and efficiently. (React, Spring Boot)

PROJECTS

Information Retrieval and Web Search Engine   *Oct 2017 - Nov 2017*
o Developed a web search engine to retrieve and search CNN news using Crawler4j and Apache Solr.
o Applied Page Rank for search, supported auto completion and spell correction features.
o Utilized jQuery and Materialize for front-end, PHP for back-end.

Collaborative Online Code Playground   *Aug 2017 - Oct 2017*
o Designed and developed a single-page web application deployed on AWS for users to register, login, edit questions and code online using Auth0, Angular 4, Node.js and MongoDB.
o Created a code editor for multiple users to edit simultaneously by implementing Socket.io, Redis and ACE source.
o Built a code executor service with Flask to compile and execute Java, C++, Python codes inside Docker Unix image.
o Decoupled services using RESTful API and implemented load balance using Nginx to improve system throughput.

Kernel Development for Weenix OS   *May 2017 - Jun 2017*
o Implemented threads, processes, scheduling and synchronization primitives on Unix-like Weenix OS.
o Developed virtual file system and virtual memory in C, managed address spaces and run user-level code.
o Tested, debugged kernel in GDB, and use Git for version control.

Facebook Search, Web and Android Application   *Jan 2017 - Mar 2017*
o Designed responsive websites for information retrieval of Facebook entities using Facebook SDK and Graph API.
o Enhanced user experience at front-end using AngularJS and Bootstrap and constructed backend server logic for data processing and JSON response with PHP on AWS.
o Developed an Android app as mobile version for the web application using Android SDK in Java.

Socket Programming for Distributed Computing   *Oct 2016 - Nov 2016*
o Constructed a computational offloading model where a single client offloads computation to and collected results from a web server which in turn distributed the load over another three backend servers.
o Established communications among a client, a web server and several backend servers over TCP and UDP connections by programming sockets with C++ in Linux after preprocessing.

EDUCATION

University of Southern California   **Los Angeles, US**
Master of Computer Science   *Aug 2016 - May 2018*

University of Birmingham   **Birmingham, UK**
Bachelor of Engineering in Electrical Electronic and Computer Engineering   *Oct 2014 - Jun 2016*

Huazhong University of Science and Technology   **Wuhan, China**
Bachelor of Engineering in Electrical Engineering   *Sep 2012 - Jun 2016*