

Zheyang Cen

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🏠 Seattle, WA

SKILLS

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

EXPERIENCE

Zillow Group

Software Development Engineer

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Seattle, US

Jul 2018 - Now

PROJECTS

Information Retrieval and Web Search Engine

Oct 2017 - Nov 2017

- Developed a web search engine to retrieve and search CNN news using Crawler4j and Apache Solr.
- Applied Page Rank for search, supported auto completion and spell correction features.
- Utilized jQuery and Materialize for front-end, PHP for back-end.

Collaborative Online Code Playground

Aug 2017 - Oct 2017

- 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.
- Created a code editor for multiple users to edit simultaneously by implementing Socket.io, Redis and ACE source.
- Built a code executor service with Flask to compile and execute Java, C++, Python codes inside Docker Unix image.
- Decoupled services using RESTful API and implemented load balance using Nginx to improve system throughput.

Kernel Development for Weenix OS

May 2017 - Jun 2017

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

Facebook Search, Web and Android Application

Jan 2017 - Mar 2017

- Designed responsive websites for information retrieval of Facebook entities using Facebook SDK and Graph API.
- 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.
- 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

- 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.
- 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

Master of Computer Science

Los Angeles, US

May 2018

University of Birmingham

Bachelor of Engineering in Electrical Electronic and Computer Engineering

Birmingham, UK

Oct 2014 - Jun 2016

Huazhong University of Science and Technology

Bachelor of Engineering in Electrical Engineering

Wuhan, China

Sep 2012 - Jun 2016