Zheyang Cen

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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   **Seattle, US**
Software Development Engineer   *Jul 2018 - Now*
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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

Carnegie Mellon University   **Pittsburgh, PA**
Master of Information Systems Management   *May 2019*

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