Zheyang Cen

in zheyangcen ✉ cenzheyang@gmail.com ☎ (213)-245-8384 ⌂ Seattle, WA

SKILLS

- Language: Java, JavaScript/HTML/CSS, Python, C/C++, SQL, PHP
- Framework/Library: Spring Boot, React, Angular, Node.js, Express.js,
- Tools: AWS, Docker, Kubernetes, Terraform, MongoDB, Redis, MySQL, NginX, Gradle, Solr

EXPERIENCE

Zillow Group   **Seattle, US**
Software Development Engineer   *Jul 2018 - Now*
- Built a workflow to automate business process, integrating with salesforce for task management, email service for auto-send when a property is ready for sale. (Java, Spring Boot, Flowable, AWS, Terraform)
- Built an internal tool for Resale Managers to manage offer status and negotiate offer with buyers. (React, Spring Boot, AWS)
- Built an internal tool for Asset Managers to review and manage price reductions for on-sale properties. (React, Spring Boot, AWS)

SONY   **Shanghai, China**
Software Development Engineer Intern   *Jun 2017 - Aug 2017*
- Developed a web-based testing platform that allows users to login, draw UML model diagram on canvas, implement algorithm and establish testing schedules online.
- Utilized JSP for web application, jQuery UI and jCanvas for front-end UI design and development.
- Applied Spring MVC, Hibernate and MySQL to store and retrieve user profiles, model data and implement algorithm.
- Shrank calculating time by 30% in server side by rebuilding service layer and introducing pairwise algorithm.

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.

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*