

KANGMIN XIE

Full Stack Software Developer, Austin, Texas

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Experienced in full-stack web application development in Spring and React frameworks, familiar with MySQL, HBase and Redis databases, skilled in Hadoop EMR streaming for big data analytics in Amazon Web Services.

EDUCATION BACKGROUND

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|---|------------------------|---------------|
| • M.S. Carnegie Mellon University, School of Computer Science | Information Technology | August 2018 |
| • Ph.D. University of South Carolina, School of Arts and Sciences | Physical Chemistry | December 2016 |
| • B.S. University of Science and Technology of China | Chemical Physics | July 2011 |

PROFESSIONAL SKILLS

Programming Languages: Java, Python, JavaScript, SQL, Bash, JSP, C#, C++, Scala

Web Frameworks: Spring, Spring Boot, React & Redux, J2EE, undertow, Node.js, Django

Database & Tools: MySQL, HBase, Redis, MongoDB; Hibernate, JOOQ, Flyway

Cloud Skills: AWS EMR, Lambda, S3, Hadoop, Spark, Docker, Kubernetes, Terraform

WORKING EXPERIENCE

Technical Business Analyst, Indeed, Inc

Nov. 2018- present

- Develop RESTful services in Spring Framework along with MySQL, Redis databases
- Develop interactive frontend with React & Redux and TypeScript
- Maintain automation tests using Python Selenium web driver
- Build and deploy products in Jenkins pipeline and support internal teams
- Tools: GitLab, Jira, Datadog, Maven, Gradle, Ant, AWS (RDS, S3, Lambda), Docker

SELECTED PROJECTS

Big Data Sports Injury Analytics, Practicum sponsored by Traq Global Ltd

June 2018- August 2018

- Developed and deployed a *Machine Learning & Big Data* platform that can evaluate the performance of injured athletes and seniors in *real-time*, present global and specific groups' rank, meanwhile offer activity suggestions
- Extended the usage of existing web application under *ASP.NET MVC* framework, via *C#* and *JavaScript, jQuery*
- Integrated new *RESTful API* statistics with pre-existing data reporting structure, utilizing *Microsoft SQL server*

High Performance Twitter Analytics Web Service | Cloud Computing & Big Data

March 2018- May 2018

- Developed and deployed an undertow web service for handling a high volume of concurrent requests (~20,000 RPS) for encoding & decoding QR strings, predicting new twitter's hashtag, extracting topic words (TF-IDF) and most influential twitters in given range, as well as responding multi-thread write & put operations
- Provisioned *Hadoop Elastic MapReduce (EMR)* streaming workflow in AWS to extract and transform ~1TB raw Twitter data, followed by loading into *MySQL* and *HBase* databases
- Configured an *Elastic Load Balancer (ELB)* for *horizontal scaling* of server resource automatically
- Designed and optimized database schema for scaling up and improved throughput by 20%

Online Mutual Fund Financial Services | Web Development – Full Stack

Jan. 2018- March 2018

- Built a financial transaction system under *J2EE MVC Framework* to allow customers buy & sell funds, research fund history, while employees can manage customers, create fund, change prices and complete daily transactions
- Developed front-end with *Java Server Page (JSP)* and *Bootstrap*, backend with *MySQL* to ensure ACID properties
- Host this application in *Amazon EC2*, utilized *Apache Tomcat* as web server with SSL protocol applied
- Reorganized this system into *Spring Boot* to support *RESTful API* by stateless server design

Cloud Vision Web Service for Dietary Analysis | Cloud Computing

Sept. 2017-Oct. 2017

- Developed a food health level detection API in *Amazon EC2* able to present healthy score in real-time for each image that users upload to *S3 bucket* (* best team out of fifteen)
- Configured *lambda function* that triggered by *SNS* from *S3* to handle labels inquiring job
- Collecting food labels by querying vision APIs from *Amazon Rekognition*, *Azure* and *GCP*
- Built a Django server to obtain labels from *DynamoDB* and calculate standardized score for graph rendering

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