

Ti Jiang

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SKILLS

Programming Language: Java, Golang, Python, JavaScript, Scala, SQL, C, HTML, CSS

Frameworks and Tools: ReactJS, Node.js, MySQL, MongoDB, MapReduce, Hadoop, Spark, AWS (S3, EMR), Docker, RabbitMQ, Git

EXPERIENCE

Software Engineer Intern, Wasabi Technologies, Boston

Jan. 2019 - Aug. 2019

Notification Service System — Full Stack Project using Golang and ReactJS

- Developed a notification service system to push cloud storage event message to user client through Http protocol
- Built the backend message flow logic and REST API using Golang through Publish-Subscriber model
- Utilized Golang multiple threading and RabbitMQ for handling an estimated 4K/s event message flow in the system
- Established a prometheus matrix to monitoring various notification data kpis for operation team through prometheus infrasturcture
- Created the front-end notification configuration UI with React/Redux in the current storage console application
- Implemented a front-end data visualization UI component with ReactVis library for user to see it storage and API calls usage data
- Used docker to containerize the notification system and deployed it as an independent micro service application

Enterprise SSO System — Full Stack Project using Golang and ReactJS

- Built a full-stack authentication system with enterprise single-sign-on function into the current cloud storage product
- Implemented the backend SSO login, authentication, token generation/exchange REST service using Golang
- Constructed a brand-new front-end authentication UI application with regular login and SSO login in ReactJS/Redux
- Integrated the system with external cloud identity provider Okta, Auth0 and Shibboleth through OpenID and SAML protocols
- The system went alive in company Q3 release cycle and simplify the authentication process for customer like Cornell University

Radio Network Engineer, Ericsson.Inc, China

Aug. 2012 - May 2017

- Provided creative radio networking solutions to satisfy worldwide customer needs and Acted as a trouble-shooting expert to address many emergency and complexity customer complaints cases
- Managed a team of 53 network engineers to successfully launch first 4G commercial network for DTAC in Thailand for six months
- Reduced site information processing complexity by 60% by merging 20 separate, fractured site information databases into one complete database and optimizing import and export plug in

ACADEMIC PROJECTS

Course Management Platform – MERN Stack Web Application

Sept. 2018 - Oct. 2018

- Built a web course management system with functionality for faculty to create, modify courses and student to browser courses
- Designed the front-end UI components for course modules, lessons, topics and widgets with React and Material UI suite.
- Managed all UI components states and async API calls through Redux and Saga library for dynamic UI rendering.
- Implemented REST service API as middle tier for backend courses and user profile data management using Java Spring Boot
- Utilized MySQL database as data storage and integrated the database operation with backend service through JDBC and JPA
- Created ChatBot using Google DialogFlow AI API to response users' questions about the course management platform automatically

Tweet User Connection Graph Analysis – MapReduce Application

Sept. 2018 - Oct. 2018

- Built a MapReduce Java program with Hadoop framework to perform data analysis on the tweet user connections data set
- Implemented the distributed path find and graph join algorithm in MapReduce to calculate longest user connections path
- Deployed the MapReduce program on AWS S3 and EMR service using 10 EC2 machines to analyze 1.32G tweet user connection data and got the user's average longest connection diameter of 7 users

Stock Application – MVC Java Application

Mar. 2018 - Apr. 2018

- Built a Java stock application for personal stock portfolio creation, management and real-time stock price trend viewing
- Constructed stock market model supporting stock portfolio management operation like buying, selling shares
- Created stock data model interface to retrieve over 200 real-time stock data by exploiting Alpha Vintage Stock API
- Designed Java Swing interactive graphical view to display user stock portfolio price trend and implemented a Simple Moving Average KPI algorithm to highlight buying opportunity

Learning Log – Full Stack Project with Django

Mar. 2018 - Apr. 2018

- Developed a learning log web application for users to create learning topics, content and track learning progress based on Django
- Established backend REST service APIs through Django framework for profile management, topic adding, user connection feature
- Created the front-end UI component through Django template engine with bootstrap library and deployed application in linux server using nginx

EDUCATION

M.Sc in Computer Science — Northeastern University GPA 3.9/4.0

Sept. 2017 - May 2020

B.Sc in Electronic Information Science and Technology — Nankai University GPA 3.3/4.0

Sept. 2008 - June 2012