

Li (Susan) Fu

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EDUCATION

M.Sc in Computer Software Engineering - Northeastern University	Seattle, WA	Sep 2023 – May 2025
B.Sc in Communication Engineering - Chongqing University of Posts and Telecommunications	China	Sep 2008 – June 2012

SKILLS

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

Frameworks and Tools: **ReactJS, Node.js, MongoDB, MapReduce, Hadoop, Spark, AWS, MySQL, Docker, Git**

PERSONAL PROJECTS

Course Management Platform – Full Stack Web Application

- 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 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

Notification Service System — Full Stack Project using Golang and ReactJS

- Developed a notification service system to push notification 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
- Created the front-end notification configuration UI with React/Redux in the console application
- Implemented a front-end data visualization UI component with ReactVis library for user to see API calls usage data
- Used docker to containerize the notification system and deployed it as an independent micro service application

Stock Application – MVC Java Application

- Built a Java stock application for personal stock portfolio creation, management and real-time stock price trend
- Constructed stock market model supporting stock portfolio management operations like buying, selling.
- Created stock data model interface to retrieve 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

Tweet User Connection Graph Analysis – MapReduce Application

- 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

WORK EXPERIENCES

Cloud Product Solution Manager - China Unicom, China

Aug. 2017 - Nov. 2022

- Guided the transformation of industry customers with traditional IT architecture to cloud-based IT, and propose construction technical solutions including selection of cloud products(ECS, ELB, OSS, Networking &CDN , Cloud security, RDS, etc)
- Lead and support major cloud computing projects or benchmarking projects, including Provincial telemedicine system(\$20.35M)cloud platform and cloud disaster recovery services for hospital business services (\$1.47M), online e-commercial cloud system(\$702K),etc.
- Decomposing customer needs and implementing specific cloud computing solutions to specific design, implementation of solutions and other technical issues.
- Responsible for organizing and completing sales of related cloud infrastructure projects and pre-technical support work, including demand research, scheme design and compilation, and bidding technical support.

Radio Network Solution Consultant - Ericsson.Inc, China

June. 2012 - June. 2017

- Managed network infrastructure system, maintain and operate the network system, ensure the safety and smoothness of key network communication systems, and meet business needs.
- Provided global Telecom operators with fast deployment, technical support and service delivery for wireless network.
- 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