

Chencheng Yi

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EDUCATION

Northeastern University

Master of Science in Computer Science; GPA: 4.0/4.0

August 2021 – December 2023(expected)

Boston, MA

Cornell University

Master of Public Administration in Public Administration

August 2019 – May 2021

Ithaca, NY

TECHNICAL SKILLS

Languages: Java, Typescript, Javascript, Python, C, Express, HTML/CSS

Frameworks: React, Redux, Node.js, Next.js, JUnit, Spring Cloud, Spring Boot

Tools: Kubernetes, Docker, Nginx, Firebase, GCP, AWS, Git, MongoDB, MySQL, Hibernate, Linux, Windows, Android Studio, RocketMQ, Redis

EXPERIENCE

Software Engineer Intern

May 2022 – Present

Valitee

Guiyang, China

- Collaborated with the UI/UX team to develop **50+** frontend components and backend applications utilizing **React.js**, **Typescript**, and **Node.js** to build a **5000+** user Web3 community
- Redesigned and implemented 2 new database schemas, fixed remaining database errors in **Firebase**, and redesign the user id retrieval algorithm by applying **WebSocket**, improving the searching speed and accuracy by **20%**
- implemented **5+** new features, including **User Guidance**, **User Status** and **Avatar Background**, through **Node.js** and **React.js**, attracting **10%** more users to join the Valitee community

Teaching Assistant - Data Structures and Computer System

January 2022 – May 2022

Northeastern University

Boston, MA

- Graded students' homework and helped 30+ students with debugging and conceptual questions during office hours
- Collaborated with professors and 3 TAs to design and implemented coding homework with **C** under **Linux** environment, including **Linux Shell** and **DFS/BFS implementation**, for 40+ students

Software Development Intern

June 2021 – August 2021

Moqi

Seattle, WA

- Collaborated with UI/UX team to develop and test a cloud-based web application for rideshare in the US, attracting **3000+** users to use the application, involving tools such as **Vanilla Javascript**, **HTML/CSS**, and **Firebase**
- Designed the database structure and collaborated with the design and test team, implemented the **Comment** feature with **Real-time Database** which processed **1000+** comments, increasing the user activity by 15%
- Developed and monitored the **Login** feature with **Firebase Authentication** to enable **3000+** people to register accounts and to log in to the application

PROJECTS

Ticket Trading System

- Developed a full-stack ticket trading web application with microservice architecture, the services include client, orders, payments, and tickets. The project is built with **Node.js**, **React**, **Docker** and **Kubernetes**,
- Implemented frontend pages with tools such as **React with Hooks** and **Next.js**, and logging pages with **JWT**-based authentication to ensure the user security
- Created microservice backend for a variety of app domains with **Typescript**, **Express**, **Ajax**, and **Nginx** with data stored in **MongoDB**
- Implemented Test-Driven Deployment with **Jest**, covering **90%** of code, and deployed the entire app in **Docker** containers executed in **Kubernetes** clusters

Stream Video

- Developed a **Java** backend project implementing a **Restful** backend microservice of a video streaming website based on **Spring Cloud**, **Spring Boot**, and **Mysql**
- Built a bullet-chat system to manage the data and requests from the client-side, and optimize the application performance with **Redis**, **RocketMQ**, and **Nginx**
- Implemented Searching and user behavior collection features through **Elastic Search** and **Kibana**

Promotion Site

- Architected a micro frontend web application with **React.js**, and **Webpack** and deployed each portion of the app independently
- Deployed the app to **AWS with CloudFront**, which applies a production-style workflow with a full **CI/CD pipeline**, reducing the deployment time from **1 hour** to **5 minutes**