

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

- Built **50+** frontend components utilizing **React.js**, **Typescript** and the styled components, and fixed **20+** bugs in the frontend code base
- Fixed remaining database errors in **Firebase**, redesigned and implemented 2 new database schemas, and improved the data collision algorithm, improving the performance by **10%**
- implemented **5+** new features, including **User Guidance**, **User Status** and **Avatar Background**, through **Node.js**, **WebSocket** 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

- Communicated with professors and 3 TAs to design weekly homework for 40+ students and hosted weekly labs
- Graded students' homework and helped 30+ students with debugging and conceptual questions during office hours

Software Development Intern

June 2021 – August 2021

Moqi

Seattle, WA

- Collaborated with team members on a cloud-based web application for rideshare in the US, involving tools such as **Vanilla Javascript** and **Firebase**
- Developed **login and comment page** with Javascript and Firebase to enable people to log in and communicate with others, attracting **300+** users to use 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 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 to avoid production bugs
- 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**