

Chencheng Yi

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EDUCATION

Northeastern University

Master of Science in Computer Science(Align); 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, Shell, Android Studio, RocketMQ, Redis

EXPERIENCE

Software Engineer Intern

May 2022 – Present

Valitee

Guizhou, China

- Built **50+** frontend components utilizing **React.js**, **Typescript** and **styled-components** and fixed **20+** bugs in the frontend code base
- Fixed remaining database errors in **Firebase**, redesigned and implemented new database schema and improved the data collision algorithm, improving the performance by **10%**
- implemented **5+** new features through **Node.js** and **React.js**, attracting **10%** more users to join the Valitee community

Teaching Assistant - Data Structures and Computer System

January 2022 – Present

Northeastern University

Boston, MA

- Communicated with professors and other TAs to design weekly homework for students and hosted weekly labs
- Graded students' homework and helped students with debugging and conceptual questions through office hours

Software Development Intern

June 2021 – August 2021

Moqi

Seattle, WA

- Collaborated with team members on a cloud-based web application for ride share in the US, involving tools such as **native Javascript and Firebase**
- Developed login and comment page with javascript and Firebase to enable people to login and communicate others

PROJECTS

Ticket

- Developed a full-stack ticket market app using microservice 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** and deployed the entire app in **Docker** containers executed in a **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-char system to manage the data and requests from client side, and optimize the database performance with **Redis**, **RocketMQ** and **Nginx**
- Implemented Searching and user behavior collection features through **Elastic Search** and **Kibana**

Promotion Site (d1ui0zavfrnohb.cloudfront.net)

- Architected a micro frontend web application with **React.js**, **Vue.js** and **Webpack**, avoiding sharing state between apps to promote isolation
- 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 1 minutes