

YUXUAN ZHENG 郑宇轩

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“Passionate programmer with a deep love for cutting-edge technology and open-source software. Skilled in software development, data analysis, and DevOps, with a strong focus on building stable, efficient solutions.”

Skills

Programming Languages

C++ C Go Python

Shell Elm

Operating Systems

Linux MacOS

Tools & DevOps

Git Docker Kubernetes

CI/CD Cloud (AWS, GCP)

Nginx

Database

MySQL Mariadb SQLite

Hive

Documentaion & Writing

LaTeX Typst Markdown

Big Data & Distributed Systems

Hadoop Spark Ray

Hive

Machine Learning & AI

AI Signal Processing

SVM CNN

Efficiency & Extensibility

Vim Bash All in Linux

Education

M.S. in CS @ New York Univerty

01/2024 – Exp 12/2025

- **GPA:** 3.8/4.0
- **Courses:** Algorithms, Programming Languages, Cloud & Machine Learning, Operating Systems, Big Data Application Development, Multicore CPU

B.E. in CE @ Shanghai Jiao Tong University

09/2019 – 08/2023

- **Senior Year GPA:** 3.7/4.0
- **Courses:** Data Structures, Cryptography, Computer Organization, Discrete Math, Linear Algebra
- **Awards:** SJTU Scholarship Third Prize, Award of Academic Progress

Work Experience

SuXiang Automobile Tech Ltd. (Startup)

Shanghai, China

Full Stack Dev Intern

08/2023 – 12/2023

- Developed a high-performance *single-page web app* using *Elm* (frontend), *Go* with *Gin* (backend), and *MariaDB* (database) to support 10 employees.
- Deployed mail server, Mattermost, and Nextcloud using *Docker*, integrating Authentik for SSO management (LDAP, OAuth, SAML).
- Automated CI/CD pipeline using *Drone* with Gitea, improving development and deployment efficiency.
- Implemented security measures including MFA, encrypted communication, and RBAC for better access control.
- Wrote documentation for system usage and SSO sign-in across services, simplifying employee onboarding.

Samoyed Cloud Tech, Ltd.

Shanghai, China

Data Analyst Intern

06/2022 – 09/2022

- Retrieved and analyzed large-scale datasets using *Hive*, optimizing data processing for actionable insights.
- Built clustering algorithm served as an extra feature to predict user risk.
- Developed and optimized scripts in *SQL* and *Python*, automating data extraction and transformation processes.

Projects

Million Song Dataset Analysis

- Developed a music recommendation system on big data with *Hadoop* and *Spark*.
- Parallelized BFS to search on the Million Song Dataset.
- Ensured flexibility and extensibility.