

CHENWEI(ALLEN) GU

☎ +1-919-201-8070 ✉ chenweigu1027@gmail.com 🔗 [linkedin.com/in/chenwei-gu-9b529b27a/](https://www.linkedin.com/in/chenwei-gu-9b529b27a/) 🐙 github.com/lutasam

Education

Duke University

Master of Engineering in Electrical & Computer Engineering

Aug 2023 – May 2025

Durham, NC

Wuhan University of Technology

Bachelor of Engineering in Computer Science

Sep 2019 – Jun 2023

Hubei, China

- 4.3/5, 93/100, rank: 3%, National Merit

Technical Skills

Programming Languages: Golang, Java, C/C++, Python, Linux Shell, JavaScript, HTML/CSS

Frameworks: Gin, gRPC, Spring, Vue.js, React.js, Gorm, Mybatis, Hibernate

Databases: MySQL, MongoDB, Redis, Elasticsearch, SQLite

Tools: Git, Docker, Kubernetes, AWS, Linux, RabbitMQ, Nginx

Courses: Data Structures, Computer Networks, Computer Architecture, Operating Systems, Distributed Architecture

Experience

Bytedance Ltd.

Jun 2022 – Aug 2022

Software Engineer Intern

Shanghai, China

- Assisted the team in developing the leave management system for over 100k employees within the company.
- Developed microservices with Golang RPC framework and database framework Gorm, and secured all data with transactions.
- Deployed codes into Docker containers and managed them centrally through Kubernetes.
- Conducted code functional and performance testing with Golang Test framework on about 2k lines code with over 85% coverage.
- Improved overall code execution speed through caching, thread pooling and asynchronous programming.
- Collaborated on multi-person programming by Git and GitLab.

Huawei Technologies Co., Ltd. (University-Enterprise Cooperation Program)

Sep 2021 – Jan 2022

Test Developer Intern

Hubei, China

- Assisted developers in optimizing internal function libraries for mobile phone chips by building testing environment with CMake and C++ testing framework Google Test (GTest).
- Conducted functional and performance testing on hundreds of lines code in Linux environment with C++ and Linux Shell.
- Implemented automated testing with over 500k data by Python.

Projects

Online Medical Consultation Platform (Graduate Design) | Golang Software Developer

Mar 2023 – May 2023

- Built a web consultation platform by Vue.js, Gin, and Gorm frameworks, with MySQL as databases and Redis for caching.
- Optimized search functions with Elasticsearch to increase the speed of search by about 30%.
- Developed a web instant messaging platform with WebSocket and used MongoDB to store conversation logs.
- Improved system concurrency using Goroutines and RabbitMQ, and used Nginx for load balancing.

NFT Analysis System (Zhejiang Univ Summer Camp Program) | Software Developer

Jun 2022 – July 2022

- Crawled thousands of NFT data from websites like OpenSea, Axie Marketplace using the Python framework PySpider. Preprocessed the data and stored it in MySQL.
- Developed the system using Spring Boot for the backend, React.js + Bootstrap for the frontend, and MySQL as the database.
- Implemented risk and security detection for various types of NFTs using AliCloud's content detection API.

Blog Sharing Website | Java Software Developer

Sep 2021 – Oct 2021

- Developed the website using Vue.js, SpringBoot, and MyBatis frameworks, with Cloud MySQL.
- Implemented permission management with JWT and Spring Security, and used Redis to store JWT tokens.
- Implemented quick search for 2 million blogs based on Elasticsearch.
- Improved system concurrency and lower the latency by thread pooling and RabbitMQ.
- Splitted the whole big project into several sub-projects and unified them through Maven.