

Mengqi Wu

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EDUCATION

• George Washington University

Master of Science in Computer Science

Washington D.C., U.S.

Aug. 2022 – May. 2024

• Chongqing University of Posts and Telecommunications

Bachelor of Engineering in Software Engineering; GPA: 3.59 (ranked among 3%)

Chongqing, China

Sep. 2017 – Jun. 2021

SKILLS

- **Programming Language:** C/C++, Java, Python, Go, JavaScript, CSS, Bash, MATLAB, and SQL

- **Tools:** Linux, Git, MySQL, Postgres, Redis, Docker, gRPC, Nginx, Vim, Visual Studio Code, Node.js, and Spring Boot

- **Course Work:** Desgin & Analysis of Algorithm, Software Paradigms, Computer System Architecture, Artificial Intelligence, Object Oriented Design, and Distributed System

PROJECTS

• Tony Online Judge System(TOJ)

Software Engineer

Washington, DC

Feb 2023 - May 2023

- Developed an Online Judge platform which provides users to practice programming skills - using **Go**. Constructed and virtualized object-oriented system design using **UML**.
- Implemented front-end by using **Vue3**, **TypeScript**, and **Vite**; built back-end with **Gin**, **Gorm**, **MySQL**, and **Redis**; deployed with **Nginx**.

• PuzzleOS

Software Engineer

Washington, DC

Sep 2022 - Jan 2023

- Created a **UNIX** like Operating System running on **RISC-V** - using **Rust**.
- Used **QEMU** to emulate the running environment; implemented some basic OS features, such as **virtualization**, **concurrency**, and **persistence**.

• Chaotic Image Encryption System Based on DNA Coding

Designer & Developer

Chongqing, China

Nov. 2020 - Jun. 2021

- Accomplished a system for meeting users' needs of encrypting and decrypting images, and also provide a corresponding management platform - using **Java** and **JavaScript**.
- Adopted **Vue.js** and **ElementUI** to implement the user-side and admin-side interfaces; used **Spring Boot**, **Spring MVC**, and **MyBatis** to build the back-end, and selected **MySQL** as the base database.
- Built the Http interface of the algorithm with **FastApi** framework; designed and developed color image encryption algorithm based on **Logistics mapping**, **Chen hyperchaotic system** and **DNA coding** - using **Python**.
- **Achievement:** Won CQUPT Outstanding Academic Paper Prize.

• Movie Recommendation System Based on User Profile

Project Manager & Developer

Guizhou, China

Jul. 2020 - Sep. 2020

- Setted up a movie platform which provides movie recommendations based on user profile - using **Java**.
- Developed the system by using **MySQL**, **Tomcat** and **Vue.js**.
- Used **Mahout** to implement two movie-recommendation algorithms: **GenericItemBasedRecommender** and **SlopeOneRecommender** and encapsulated the algorithm into an interface.

• WeChat Mini Program Development of “Volunteer in CQUPT”

Designer & Developer

Chongqing, China

Mar. 2019 - Oct. 2019

- Built a program of volunteer recruitment and registration for schools based on **WeChat Applet** - using **Java**, **JavaScript**, **CSS**, and **HTML5**.
- Designed database with the application of **RBAC(Role-based Access Control)**.
- **Achievement:** Obtained the Chinese National Software Copyright.