

Mingtao Chen

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SUMMARY

- Software Engineer with one year of work experience currently pursuing an MSIS degree at the University of Pittsburgh.

EDUCATION

University of Pittsburgh Sep 2021 - Apr 2023
Master of Science in Information Science Pittsburgh

- Finished Courses: Information Storage & Retrieval, Information Visualization, Information Security & Privacy, Database Management
- Current Courses: Information Systems Analysis and Design, Human Information Processing, Algorithm Design
- Current GPA: 4.0

Sun Yat-sen University Aug 2016 - Jun 2020
Bachelor of Engineering in Software Engineering Guangzhou

- GPA: 3.7 / 4.0
- Relevant Courses: Web & Native Application Development, Blockchain, Web Security, Computer Graphics, Virtual Reality, Computer Networks, Software Testing
- Bachelor Thesis: Cross-Region Resource Scheduling in OpenStack-based Cloud Systems

PROFESSIONAL EXPERIENCE

Digital Guangdong Network Construction Co., Ltd. Jul 2020 - Jul 2021
Software Development Engineer Guangzhou

- Worked with UI/UX designers to develop user-friendly Web front-end interfaces for products.
- Established a development framework with tools like **Vue** and **Uni-app** for mobile versions of products.
- Implemented visual workflow designer and tracking visualizer to work with the workflow engine.
- Adjusted existing open-source projects to build a **code generation** tool that generates CRUD **Java** and **TypeScript** Code according to given database schemas.

Digital Guangdong Network Construction Co., Ltd. Jun 2019 - Oct 2019
Software Developer Intern Guangzhou

- Web frontend development for PC and Mobile interfaces.
- Backend development with database technology such as **MySQL** and **Redis** for corporation IT systems including ERP system and IT asset management system.

PROJECT EXPERIENCE

CovidSearch

- A multi-strategy **search engine** built for COVID related research publications
- Implemented three search modes(keyword search, machine learning search and advanced search) designed for different user groups
- Built the backend with **Python**, **ElasticSearch**, and **LightGBM**
- Used **Vue 3** and **NaiveUI** to implement the web interface
- Utilized **scikit-learn** to evaluate the system's performance

CryptoChat

- An **Ethereum** based dApp to provide **AES** encrypted IM communication between two users with Ethereum accounts.
- Built with **Solidity**, **Golang**, **TypeScript**, and **Vue**.

Earn Me The Money

Backend Developer

- A **wechat mini program** to provide a platform for students to publish tasks, questionnaires, and second-hand goods exchanges.
- Server side was built with **Rust**, using **actix-web** as the web framework, Diesel as the ORM, **MySQL** as the database and **Docker** for deployment.

BeachView

- A program to render beach and snow mountain CG scenes with **OpenGL**.
- Implemented CG techniques like Lighting and Shading, Shadow Mapping, Collision Detection, and Texture Mapping to create a realistic render effect.

SKILLS

- **Programming Languages:** C++, Python, Rust, Go, JavaScript, Java
- **Tools:** HTML, CSS, React, Vue, Git
- **Languages & Tests:** English(TOEFL 109, IELTS 7.5)