

Tiffany Chen

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Software Engineer with 4 years of backend development experience, specializing in Python and Django for secure RESTful APIs. Currently progressing on a project in Go, with proficiency in AWS, PostgreSQL, and Docker deployment. Committed to optimizing infrastructure and enhancing system performance.

WORK EXPERIENCE

Roulettech Inc. (Startup)

Pittsburgh, PA

Full-Stack Engineer Intern

Jun 2024 - Sep 2024

- Developed **RESTful APIs** with **Django** in **Python**, incorporating a login system with **AWS Cognito** and OAuth-based third-party authentication, improving security and reducing support requests by 25%.
- Engineered serverless functions in **Python** using **AWS Lambda** to handle automated email delivery via **AWS SES**, integrating with **Django REST API** endpoints, resulting in an approximately 30% increase in efficiency and scalability.
- Designed **ERD** and **DB schema** for implementation in **PostgreSQL** with data access through **Django** as the backend.
- Collaborated with the UI/UX team in Figma and implemented frontend using **React** and **Tailwind CSS** frameworks.

OUOrange Digital Design Co., Ltd.

Taiwan

Back End Software Engineer

Apr 2023 - Aug 2023

- Established a message management system with real-time notifications using **PHP**, **Laravel**, and **JavaScript**, enabling users to receive and reply to emails directly through the platform, improving user engagement by approximately 25%.
- Implemented a redemption feature using **JavaScript** and **PHP**, incorporating event listeners on a custom button to trigger **backend API** checks for user eligibility to support the redemption process.
- Built a backend management system for user/product management, utilizing **MySQL** for data storage and retrieval.

SELECTED PROJECT

GoRedis, GitHub link

- Built a **Redis-like** server in **Go**, handling core commands and **TCP/IP** connections.
- Implemented secure **RDB snapshot** handling, preventing unauthorized access and data corruption.

Automatic Correction Program and Style Detection System, GitHub link

- Designed **RESTful APIs** using **Go** and **CockroachDB** to efficiently manage test submissions, enhancing data retrieval speed by 30% and improving overall system responsiveness.
- Engineered a real-time feedback system for students and optimized infrastructure using **Kubernetes** and **Docker**, designed to handle 1,000+ **concurrent** users with high availability and improved coding practices.
- Developed a full-stack integrated system using **Node.js**, **React**, and **Docker**, facilitating resource sharing among high schools and automating the scoring process, streamlining educational assessments by 40%.

EDUCATION

University of California, Irvine

Irvine, CA

Master of Software Engineering (MSWE), GPA: 3.82

Sep 2023 - Dec 2024

Courses: Concurrent Programming, Distributed Software Architecture, Software Testing/Debugging, Network Programming

National Chi Nan University

Taiwan

Bachelor of Business Administration (B.B.A.) in Information Management

Sep 2018 - Dec 2022

Courses: Data Structures and Algorithms, Operating Systems, System Analysis and Design, Database Management System

TECHNICAL SKILL

Programming Languages

Go, TypeScript, Python, JavaScript, Java, PHP

Software Engineering

Unit Testing, Integration Testing, Performance Testing

Web Framework

Django, Flask, React, Tailwind CSS, Bootstrap

Databases

PostgreSQL, MySQL, SQLite, NoSQL

Cloud & DevOps

Docker, AWS(S3, EC2, IAM, Lambda, Cognito), Linux, Git, GitHub Actions