

Hsuan-Ling Lin

1515 Bissonnet St Unit 221B, Houston, TX 77005

☎832-762-5581 ✉Hsuan-Ling.Lin@rice.edu 🌐https://hsuanlinglin.github.io 📄hsuanlinglin

EDUCATION

Rice University

Master of Computer Science

Houston, TX

Expected Dec. 2022

National Tsing Hua University

Master of Science in Communications Engineering · GPA: 3.96/4.3

Hsinchu, Taiwan

July 2016

National Central University

Bachelor of Science in Communications Engineering

Taoyuan, Taiwan

June 2013

RELEVANT COURSEWORK

Web Development and Design · Introduction to Database Systems · Computer Algorithms · Operating Systems · Computer Systems Architecture · Computer Networks · Data Structure

WORK EXPERIENCE

JKOPay Co. Ltd (The most widely used mobile payment system in Taiwan)

Taipei, Taiwan

Backend Developer - Business Solution Team

July 2020 - June 2021

- Built e-ticketing server-side service from scratch using **Java Spring Boot, MyBatis, MySQL, Docker, and ELK stack**; responsible for **managing project** from initial documentation, database schema design, and implementation.
- Raised 17% coupon allowance rate and gained \$3000+ revenue each month in coupon service by implementing instant-payback coupon by **Python Django framework, Redis Queue and MySQL**.
- Involved in developing a **Python-based** coupon service capable of handling 2500+ RPS while users collected coupons by designing cache via **Redis**, leveraging **Redis Queue** to send coupons to users, and synchronizing data by **Kafka**.
- Independently developed a **content management system by Python Django** to set up coupons, campaigns, and missions for internal marketing specialists.

MediaTek Inc. (A global leading semiconductor and telecommunications company)

Taipei, Taiwan

Software Engineer

Dec. 2016 - Dec. 2018

- **Won 2 times MStar Short Term Reward**, which is a recognition of top 3 outstanding employees in the Research and Development Division each quarter.
- **Improved video compression rate in Google AV1 c-model by 65%** through researching and developing data compression algorithm.
- Developed software functions in video encoder (JPEG/H.264/HEVC), decoder (Google AV1) C-model by **C/C++** for verifying FPGA hardware IP functions, covered all target test items.

PROJECTS

RiceBook.com · Frontend Web Development · JavaScript

Aug. 2021 - Present

- Developed a social networking web application with features of user registration, login validation, posting and commenting articles, uploading images, and customizing profiles; leverage **JavaScript, Bootstrap, HTML**.

JKO Lioneer e-ticketing service · Java Spring Boot · RESTful APIs · MySQL · Docker

Jan. 2021 - Apr. 2021

- Built a profit-making **e-ticketing service with order, ticket and content management modules**; sports team can launch events, sell tickets, verify entrance tickets and manage orders; customers can buy tickets and transfer tickets.
- Implemented backend services using **Spring Boot**, designed **RESTful APIs**, constructed business need database by **MySQL**, deployed by **Docker**, adopted **Jenkins** for CI/CD and **ELK stack** for log management.

PROFESSIONAL SKILLS & INTERESTS

Programming

Python · Java · C · C++ · SQL · JavaScript

Web Development

Django · Spring Boot · RESTful API · Redis · Docker

Software Engineering

OOP · JUnit testing · IntelliJ · PyCharm · Linux · Vim · Git

Interests

basketball · movies · traveling · shopping