

YI-HSUAN (IAN) HUANG

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Education

Master of Computer Science, Rice University

Houston, Texas

Aug. 2022 – Dec. 2023 (Expected)

BBA, Business Administration, National Taiwan University

Taipei, Taiwan

Sep. 2016 – Jun. 2021

- 3.84/4.30 overall GPA, CS & IM related GPA: 3.94/4.30
- **Selected Coursework:** Java Programming (A+), Introduction to Information Retrieval and Text Mining (A+), Practices for Distributed Systems and Cloud Application Development (A+), Software Project Management (A)

Skills

- **Programming Languages:** JavaScript, Python, Java, C, HTML/CSS
- **Framework:** Express.js, React.js, Vue.js, Django, Mocha.js, GraphQL
- **Databases:** MySQL, MongoDB, DynamoDB
- **Services/Tools:** AWS, GCP, Docker, Git, Webpack, Swagger, Postman

Work Experience

Software Engineering Intern, Homexin Co., Ltd

Taipei, Taiwan

Mar. – Dec. 2021, (temporary leave for compulsory military training), Apr. – Jun. 2022

- Built core functions of the company's caretaker-patient matching platform, including real-time SMS verification and reward system for caretakers, case management feature for clients, and content management system for admins.
- Improved product efficiency and flexibility by migrating about 20 querying APIs from RESTful to GraphQL.
- Refactored more than 500 lines of code into reusable modules by using JSDoc to clearly define types and parameters of functions or React.js components.
- Constructed reusable modules to handle third-party services, including AWS, Slack, Line, texting services, etc.
- Secured users' sensitive data by using encrypted AWS S3 buckets.

R&D Department Intern, Flow Inc.

Taipei, Taiwan

May. – Sep. 2020

- Preprocessed clients' raw data, including formatting and data cleansing, for later data tagging.
- Retrieved labeled data using SQL and parsed them into various desired formats, including CSV, XML, JSON, YOLO Txt, etc.
- Configured setting files on remote servers to automatically generate reports using Cron jobs.

Study group slides: [You don't know JS – Generators](#) | [You don't know JS – ES6 Collections](#)

Projects

Principal Backend Developer, City Chaser Studio

Taipei, Taiwan

Oct. 2019 – Aug. 2020

- Developed the backend server of Kyronus, a mobile game promoting Taiwan's culture with its iconic buildings, including features like user authentication, player growth system, gaming mechanisms, etc.

- Introduced AWS Lambda & DynamoDB to accelerate development and reduce cost to less than 10 USD/month.
- Improved product reliability with detailed API-wise test cases covering about 90% of APIs.
- Automated the process of parsing gaming parameters hosted in cloud into static files with version management by using Shell Scripts.
- Won the 3rd prize out of 53 teams in the Mobile Game Group of Vision Get Wild Award, the biggest multimedia application contest in Taiwan, 2020.
- Crowdfunded approximately 3,000 USD from 100+ sponsors.

Extracurricular Activities

Teaching Assistant, Full-Stack Online Course, ALPHA Camp

Taipei, Taiwan

Jul. – Dec. 2021

- Reviewed student assignments. Examples include a content management website of restaurants and a URL shortener.
- Answered students' questions regarding the courses, including concepts like algorithm or database schema designing and techniques like database connections or git version control.

Director of Academic Affairs, NTUBA Department Student Association.

Taipei, Taiwan

Sep. 2018 – Jul. 2019

- Organized the year-long Mentor Program to help students connect with alumni by surveying students' needs, matching them with mentors, and arranging year-end presentations.
- Improved students' learning by organizing various workshops and seminars.