Ryan Chang

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Professional summary

Full-stack web developer and UWA Master of IT graduate (GPA 6.38/7.0) skilled in Next.js, Python, and AWS, with hands-on experience delivering scalable, reliable, and production-ready web solutions.

Work Experience

Anheng Information Technology (Hangzhou)

Backend Developer 02/2022 – 06/2023

- Built and documented RESTful APIs with Django REST Framework and drf-spectacular.
- Developed backend services to stream data from Apache Kafka into relational databases.

Skills

- Languages: Python (Advanced), JavaScript
- Frameworks & Libraries: React, Next.js, Tailwind CSS, Flask
- Databases: PostgreSQL, MySQL
- Tools & Cloud: Git, Docker, AWS (EC2, S3, DynamoDB, IoT Core), Vercel

Education Qualifications

University of Western Australia -- Master of Information Technology

Jul 2023 – Jul 2025 | GPA: 6.38/7.0, WAM: 77.6/100

- Core units: Computational Thinking with Python (90), Object-Oriented Programming (86), Capstone Project (86).
- Awarded the UWA Global Excellence Scholarship (2023).

Hangzhou Dianzi University -- Bachelor of Information Security

Sep 2019 – Jun 2023 | GPA: 3.69/4.0, Avg: 81.9/100

- Core units: Computer Network (89), Network Programming (82), and Security Testing & Evaluation (81).

Projects

NFT Marketplace | Python, Flask, Bootstrap, JavaScript, SQLite | 2024 [GitHub]

- Designed and implemented a Flask backend handling authentication, database interactions, and API requests for NFT transactions.
- Built a responsive front-end using HTML, CSS, Bootstrap, and JavaScript, ensuring a seamless user experience.
- Implemented secure authentication with hashed passwords and session-based logins.
- Applied unittest and Selenium for unit testing, automated UI testing, and API/database validation.

Smart Doorbell System | Raspberry Pi, AWS IoT, Flask, Cloudinary | 2025 [GitHub]

- Designed and implemented an IoT-based smart doorbell integrating PIR/motion sensors, mmWave radar, camera, and microphone.
- Built event-driven workflows for doorbell button presses, automated lighting, and real-time notifications.
- Enabled remote live streaming and event logging through Cloudflare Tunnel.