

Jia-Chih (Roger) Lin

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Experience

Senior Software Engineer | Wistron Corporation, Taipei, Taiwan

Feb 2021 - Jul 2024

- **Built a bug search engine** using Django (Python-based web framework) and BERT (Bidirectional Encoder Representations from Transformers), **reducing search time by 16 hours per month** for a team of **10 engineers**.
- **Developed an automation infrastructure** using Laravel (PHP-based web framework) and Jenkins, leading to **\$80,000 in annual savings** for the company.
- **Streamlined data collection processes**, adopting Airflow and Kafka to access company public data, and **saved 16 hours per month** for developers.
- **Implemented GitLab CI/CD**, **increasing unit testing coverage by 10%**, improving system reliability, and **reducing deployment time from 40 to 5 minutes**. Also, set up monitoring and alerts, enhancing troubleshooting.
- **Processed 45GB of data** using SQL and Supervisord, implementing **information retrieval systems** to deliver **real-time insights** to managers and improving production decision-making.
- **Implemented WebSocket** for collaborative forms editing, **saving 8 hours per month** for **20 project leaders** on data organization and weekly report distribution.
- **Leveraged OAuth2 with Microsoft Azure** to connect legacy systems, **enabling Single Sign-On for over 300 employees** and simplifying the user login experience.
- **Enhanced security and reduced webpage load time to under 0.5 seconds** by incorporating SSL and HTTP/2 across legacy systems, improving performance for internal company portals.

Education

Master of Software Engineering | University of California, Irvine, Irvine

Sep 2024 - Dec 2025

Geosciences, Master of Science | National Taiwan University, Taipei, Taiwan

Sep 2018 - Jan 2021

- GPA: 3.98/4.00 | Class Rank: 1/17
- CS-related courses in academic record (GPA: 4.00/4.00) (28 credits):
Computer Programming, Data Structure, Algorithms, Engineering Mathematics-linear Algebra, Computer Networks, Operating Systems, Probability and Statistics, ..., etc.

Geosciences, Master of Science | National Taiwan University, Taipei, Taiwan

Sep 2014 - Jun 2018

- GPA: 3.71/4.00 | Class Rank: 4/31

Skills & Abilities

Programming languages:	Python, Go, JAVA, TypeScript, PHP, JavaScript, C++
Frameworks:	Django, Laravel, NestJS, Node.js, React.js, Spring Boot, Flask
Developer Tools:	Linux, Docker, Git, Nginx, BERT, Supervisord, MySQL, PostgreSQL, Oracle, MongoDB, Prisma, Redis, Jenkins, Azure, Apache Airflow, Kafka, Swagger, Cloudflare

Honors and Awards

Data Engineer (Lv. 3)-Specialist, Wistron Corporation

Sep 2022

President's Award, National Taiwan University for 3 semesters

Apr 2016 - Oct 2018