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.
· **Integrated legacy systems with Azure login**, achieving Single Sign-On for **300+ employees**, simplifying the user login process.
· **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(advanced), PHP(advanced), TypeScript(advanced), JavaScript, C++, JAVA
Frameworks:	Django, Laravel, NestJS, Node.js, React.js, 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**