







Po-Heng (Henry) Lin

 New York, NY  +1 (832) 627-6734  poheng.henry.lin@gmail.com
 portfolio-pohenglntw.vercel.app/  github.com/PoHengLinTW  [in/pohenglntw](https://in.pohenglntw)

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python, JavaScript, TypeScript, Hack, Shell, Golang

Cloud Services & CI/CD Tools: GCP, AWS, Terraform, Docker, Kubernetes, Jenkins

Frameworks & Tools: Git, Mercurial, React.js, Mongoose, Nginx, ZooKeeper, [WebRTC](#), [Coturn](#)

Databases & Big Data: MYSQL, GraphQL, InfluxDB, MongoDB, PostgreSQL, Redis, Kafka

PROFESSIONAL EXPERIENCES

[Bloomberg L.P.](#)

New York, NY

Software Engineer

Feb. 2023 - present

Python, JavaScript, TypeScript, C++, Jenkins, Docker, Kubernetes, Kafka, RabbitMQ, PostgreSQL

- Built micro frontend infrastructures including client-side message queue, asset bundles weaving, and API proxying, to host 10+ engineering teams' web applications with 99% uptime
- Established a cloud service to serve static assets with S3 to provide serverless frontend bundle solution in the ecosystem of micro frontend, with version control, CI/CD, and distribution management

[Meta Platforms Inc. \(formerly Facebook\)](#)

Bellevue, WA

Production Engineer Intern

May 2022 - Aug. 2022

Hack(PHP), JavaScript(React), C++, Python, SQL

- Improved the distributed server to enhance routing speed by 10% for 25+ billion daily publishes/subscribes
- Built capacity estimation tooling to calculate the number of hosts and power needed for new users of an infra service which reduced engineering time requirements for capacity calculations by more than 90%
- Created a capacity request tracking web service to record and organize all capacity requests from infra customer product teams with MySQL, ReactJS, and [GraphQL](#)
- Designed the project's functionalities with team and initiated improvement on frontend UI and method in Hack, which improved query speeds by more than 10%

[Patere Technology Co.](#)

Hsinchu, Taiwan

Software Engineer

Jun. 2020 - Jul. 2021

JavaScript(Node, Vue, React), C++, Java, Go, Terraform

- [Thea.ai](#) — A online monitoring system for medical diagnosis and healthcare
 - Established a high-speed video data transmission platform and incorporated computer vision models to assess patients' recovery status and detect dangerous actions of the elderly with 90% accuracy
- [On-Time Talent Solution](#) — A medical profession hiring web application with 100,000+ global users
 - Optimized the bottleneck of GraphQL API in backend server to shorten frontend query time by 20%
- Constructed the CI/CD pipeline on GCP and containerized the code with Kubernetes to replace the manual testing and deployment process, saving development time for all product teams by 50%

EDUCATION

[Rice University](#)

Houston, TX

M.S. in Computer Science, GPA: 3.85/4

Aug. 2021 - Dec. 2022

[National Chung Cheng University](#)

Chiayi, Taiwan

B.S. in Computer Science and Information Engineering, GPA: 3.76/4

Sep. 2016 - Jun. 2020

PROJECTS

Yalnix OS — A Unix-like operating system in C

Feb. 2022 - May 2022

- Built a kernel handling memory management, context switch, system calls, and scheduling from scratch
- Handcrafted a unified file system(Ext4) to support all file operations and file path name lookup

MyDB — Relational database implementation from scratch in C++

Jan. 2022 - May 2022

- Supported cache/buffer management, table/page/record management, SQL parser, and lexer, relational operation (select, join, aggregation), and query optimization with more than 3 million records