




Po-Heng (Henry) Lin

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EDUCATION

Rice University <i>M.S. in Computer Science</i>	Houston, TX Aug. 2021 - Dec. 2022 (expected)
National Chung Cheng University <i>B.S. in Computer Science and Information Engineering</i>	Chiayi, Taiwan Sep. 2016 - Jun. 2020

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python, JavaScript, TypeScript, Hack, Shell, Golang
Cloud Services & CI/CD Tools: GCP, AWS, Terraform, Docker, Kubernetes
Frameworks & Tools: Git, Mercurial, Vue.js, React.js, Mongoose, Nginx, ZooKeeper, [WebRTC](#), [Coturn](#)
Databases & Big Data: MYSQL, GraphQL, InfluxDB, MongoDB, PostgreSQL, Redis, Kafka

PROFESSIONAL EXPERIENCES

Meta Platforms Inc. (formerly Facebook) <i>Production Engineer Intern</i> Hack(PHP), JavaScript(React), Python, SQL	Bellevue, WA May 2022 - Aug. 2022
<ul style="list-style-type: none">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 GraphQLRebuilt an old capacity query service in Hack improving query speeds by more than 10%	
Patere Technology Co. <i>Software Engineer</i> JavaScript(Node, Vue, React), C++, Java, Go, Terraform	Hsinchu, Taiwan Jun. 2020 - Jul. 2021
<ul style="list-style-type: none">Thea.ai — A online monitoring system for medical diagnosis and health care<ul style="list-style-type: none">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% accuracyOn-Time Talent Solution — A medical profession hiring web application with 100,000+ global users<ul style="list-style-type: none">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%	

PROJECTS

Yalnx OS — A Unix-like operating system in C	Feb. 2022 - May 2022
<ul style="list-style-type: none">Built a kernel handling memory management, context switch, system calls, and scheduling from scratchHandcrafted 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
<ul style="list-style-type: none">Supported cache/buffer management, table/page/record management, SQL parser and lexer, relational operation (select, join, aggregation), and query optimization	
Macssenger	Nov. 2021 - Dec. 2021
<ul style="list-style-type: none">Created a web application to support real-time messaging with WebSocket and deployed it on Heroku	
Wake up words detection in embedded devices	Nov. 2021 - Dec. 2021
<ul style="list-style-type: none">Trained NLP model in Google CoLab and run the TinyML model in Arduino embedded devices	
Ricebook — A Facebook clone for Rice University (Full-stack)	Sep. 2021 - Nov. 2021
<ul style="list-style-type: none">Established a social media platform that supports posting, comments, and reactions using MERN stack	
OneClickMeeting — Google Chrome extension app (Hackathon)	Oct. 2021
<ul style="list-style-type: none">Provided fast video conference services like Google Meeting within one click on extension tab	
Real-Time Traffic Signs Detection and Recognition	Dec. 2019 - Jan. 2020
<ul style="list-style-type: none">Used YOLOv3 to detect and recognize traffic signs under various driving conditions with 80% accuracy	