

# Pin-Hua Lee

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## EDUCATION

### University of California, Berkeley

Aug. 2023 – present

*M.Eng. in Electrical Engineering & Computer Science (Concentration: Data Science and Systems)*

### National Taiwan University

Sep. 2018 – Feb. 2023

*B.A. in Economics*

- Overall GPA: 3.95/4.3 (CS-related GPA: 4.11/4.30)
- Related Courses: Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Statistics, Operating Systems, Web Programming, Computer Architecture, Introduction to Computer Networks, Machine Learning, Computer Vision, Deep Learning for Computer Vision

## WORK EXPERIENCE

### Zeabur

Jan. 2023 – present

*Co-Founder & Software Engineer*

- Utilized Go and gRPC to design backend microservice architecture, enabling automatic deployment with one click
- Leveraged Kubernetes to orchestrate containerized applications, ensuring seamless deployment and scalability
- Received \$300k funding from Miracle Plus, and gained 11k+ users in a year

### Microsoft

July 2021 – June 2022

*Software Engineering Intern*

- Built a healthcare hybrid cloud solution prototype on Azure Stack HCI with Fast Healthcare Interoperability Resources
- Deployed a self-hosted gateway using Taiwan Stock Exchange APIs on Azure Stack HCI and demonstrated on Microsoft Public Sector Day to 150+ partners and customers
- Led a 3-hour workshop on building a face detection application using PowerApps and Face API to 120+ undergraduate students

### eLand Information

Apr. 2020 – Aug. 2020

*Data Analyst Intern*

- Analyzed sales data of Shopee and public opinion using machine learning models
- Performed data cleansing using MySQL and Python on more than 1 million comments and articles

## RESEARCH EXPERIENCE

### Academia Sinica

Feb. 2022 – Jan. 2023

- Performed high-fidelity kinship face synthesis with an optimized encoder architecture, achieving an AUC score of 0.8871, outperforming prior art by 0.2151
- Accepted as an oral presentation in ACCV'22

## SELECTED PROJECT

### Backend system of Zeabur | Go, gRPC, GraphQL, Docker, Kubernetes, Redis, Terraform

Jan. 2023 – present

- Developed [subscription and payment system](#) with Stripe SDK that supports monthly subscriptions and Alipay
- Developed the [referral system](#) that gives a \$5 credit to the referrer when a user signs up with the referral code and makes the first subscription payment
- Developed the [template system](#) for users to deploy from the template with one click
- Developed email system using Resend that sends email when build jobs fail and deployment crashes

### Bus Error | Node.js, Express, Google Auth Library, JWT, MongoDB

Dec. 2022 – Jan. 2023

- Developed backend of a technical forum with Google OAuth2.0 login for secure user authentication
- Provided users with metrics such as total rating, comments, and views for each article
- Enabled upvoting and downvoting of articles and comments to engage users
- Calculated and displayed user statistics including days in the community, posts, comments, and adopted comments

### Lexicalegend | TypeScript, Axios, Webhooks, Cheerio

July 2022 - Aug. 2022

- Designed an interactive chatbot in TypeScript supporting vocabulary learning and achieved 900+ users
- Extracted data from fetched HTML responses using Cheerio
- Integrated multiple dictionary references in the chatbot that can recommend vocabulary from different exams

### Long Tail Annihilator | Deep learning, Computer vision, PyTorch

Nov. 2021 - Jan. 2022

- Proposed a bilateral-branch network with the Swin Transformer backbone to perform long-tail fine-grained food classification (ICCV'21 Workshop Challenge)
- Achieved 88.07%/85.04%/65.73% accuracy on frequent/common/rare track (number of data: 100+/10~100/<10) on 1000-class food image classification

## SKILLS

- Programming languages: Python, C/C++, JavaScript/TypeScript, Go, GraphQL
- Other technical skills: MongoDB, MySQL, Git, Azure, AWS, Kubernetes, Docker, ReactJS, NodeJS, gRPC