

Min-Chi Chiang

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EDUCATION

University of California, Berkeley

Berkeley, CA

Master of Engineering in EECS

Aug. 2021 – May 2022 (Expected)

Concentration: Data Science & Systems

Award: UC Berkeley College of Engineering Fung Excellence Scholarship

National Tsing Hua University

Hsinchu, Taiwan

Bachelor of Computer Science

Sept. 2017 – Jan. 2021 (Early graduated)

Overall GPA: 3.95/4.30

Major GPA: 4.05/4.30

Award: Outstanding Academic Achievement Award (10 out of 138 students)

Key Coursework: Operating System, Design and Analysis of Algorithms, Computer Architecture, Data Structures, Database Systems, Software Engineering, Introduction to Machine Learning, Introduction to Embedded Systems

WORK EXPERIENCE

9dynamics

Aug. 2020 – Dec. 2020

Backend Tech Leader

Taipei, Taiwan

- Led 5 people teams to developed 60k concurrent instant messaging systems by employing NATS Streaming, Websocket under microservice architecture
- Supervised system design (microservice), networking, database selection and integration of Social Apps
- Built automated DevOps mechanism such as CI/CD, monitoring on E-Commerce, Game, Social Apps projects
- Integrated Scrum with our DevOps process from scratch to manage well projects and coordinate team members

giloo Inc.

July 2017 – Aug. 2020

System Architect & Software Developer

Taipei, Taiwan

- Oversaw & led the team to reconstruct backend service from monolithic system to microservice with Kubernetes
- Reached 99.99 % availability by integrating auto-healing mechanism with automated monitoring system
- Designed and implemented real-time Multi-Provider Payment System that supports Google Pay, Apple Pay, credit card, voucher by integrating with Google, Apple and Stripe APIs and PostgreSQL & Redis Databases
- Implemented Role-Permission Authorization Systems supporting third-party OAuth such as Google, Apple, Facebook by using Json Web Token(JWT) and Redis Database
- Collaborated with KKStream & Bitmovin to develop online streaming platform with Typescript

PUBLICATIONS

DynamoML: Dynamic Resource Management Operators for Machine Learning Workloads

Min-Chi Chiang and Jerry Chou

- Speedup 3.44 times of Resnet-50 model training time by employing gang scheduling with locality awareness
- Keep 74ms of inference response time by designing inference auto-scaling controller for priority scheduling
- Fully-utilized GPU resources by utilizing CUDA library hook & API blocking to provide fractional GPU allocation and time-share fairness scheduling
- Awarded the **best paper** in the 11th International Conference on Cloud Computing and Services Science

LEADERSHIP & EXTRACURRICULAR EXPERIENCE

7th Mei-Chu Hackathon | *President*

Nov. 2018 – Oct. 2019

- Led 52 people team to collaborate with Google, Amazon, Logitech, etc. and Hsinchu city government to hold 350+ people nationwide Hackathon festival and workshops

TEDxYouth at MingdaoHS 2020 Summit | *Speaker*

Sept. 2020

SKILLS

Programming: C/C++, Python, Verilog, Java, Golang, Javascript, SQL

Framework: Nuxt.js, Egg.js, Moleculer, Go-Micro, PySpark, Pthread, MPI, OpenMP, CUDA

Deployment Tool: Kubernetes, Docker, Istio, Amazon Web Service, Google Cloud Platform, Gitlab CI/CD, Jaeger

Database Management: MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch, Neo4j, Dgraph, Prometheus