

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, Massive Data Analysis, Embedded Systems, Parallel Programming

WORK EXPERIENCE

9dynamics

Jan. 2020 – Dec. 2020

Backend Tech Lead

Taipei, Taiwan

- Led 5 people team to develop 60k concurrent instant messaging systems by employing NATS Streaming, Websocket, gRPC, MongoDB and Redis with Kubernetes
- Supervised microservice system design, service mesh networking, SQL & non-SQL DB integration on Social App
- Built 100% automated DevOps mechanism such as CI/CD, monitoring on E-Commerce, Social App projects
- Integrated Scrum with our DevOps process from scratch to well manage with 10+ people developers team & PM

giloo Inc.

July 2017 – Jan. 2020

System Architect & Software Engineer

Taipei, Taiwan

- Oversaw backend infrastructure reconstruction from monolithic system to microservice with Kubernetes & Istio
- Reached 99.99 % availability by integrating monitoring systems & fault tolerance mechanism with Kubernetes
- Designed payment systems supporting Google & Apple Pay by integrating with Google, Apple and Stripe APIs and PostgreSQL & Redis Database
- Implemented authorization systems supporting Google, Apple, Facebook OAuth by using JWT and Redis
- Collaborated with KKStream & Bitmovin to develop online streaming platform with Typescript

RESEARCH EXPERIENCE

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-utilize GPU resources by utilizing CUDA library hook & API blocking to provide fractional GPU allocation and time-share fairness scheduling
- Reduce 60% overall ML workload execution time by integrating a set of custom runtime scheduling operators
- Awarded the **best paper** in the 11th International Conference on Cloud Computing and Services Science

LEADERSHIP EXPERIENCE

7th Mei-Chu Hackathon | *President*

Nov. 2018 – Oct. 2019

TED at MingdaoHS 2020 Summit | *Speaker*

Sept. 2020

SKILLS

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

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

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