

KARL LIN (林熙哲)

MSc in Computer Science, National Yang Ming Chiao Tung University

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github.com/linroex

SUMMARY

Entrepreneur with a software engineering background and a strong business acumen, adept at leveraging appropriate technologies to solve real-world problems with commercial viability in mind. Successfully launched an event management application adopted by multiple large-scale events and provided technical solutions for companies like CTS and Seekertech. Possessing substantial project management and leadership experience, skilled at unifying teams and maximizing their potential. Led a team of over ten engineers to complete nearly ten outsourced projects within two year.

EXPERIENCE

NYCU Computer Center in CS Department

Teaching Assistant

📅 Sep 2021 – May 2023

- Served as a Backend Engineer at the Computer Center in the Department of NYCU CS, developing and maintaining web systems such as master's admission, classroom booking.
- As a TA for the System and Network Administration, designing assignments, writing automated grading scripts, and resolves student questions; course topics included Linux management, router configuration, VPN setup ... etc.
- Assisted TANet with cybersecurity assessments and discovered a critical vulnerability in a school, which could potentially allow regular teacher accounts to escalate privileges and access personal data of all students.

MoMoKa Studio Inc.

Founder

📅 Jan 2019 – Sep 2021

- Founded MoMoKa Inc, successfully developed MICEPLUG, a comprehensive event management platform, used by over ten events including a 10,000-attendee exhibition and a 1,000-attendee concert even during COVID-19.
- Provide data consulting service during COVID-19 period. Completed 10+ projects in 2 years, including CTS News, Linkingbooks, Seekertech ... etc.
- Assisted Forest team building data infrastructure for 10+ million daily records on Google Cloud; Forest App consistently ranks top 10.
- Provided data automation services for a medical aesthetic company, streamlining their financial and operational data processing from a task that took 4 people 7 days to complete to a process that now takes only 10 minutes.

EDUCATION

National Yang Ming Chiao Tung University (NYCU, aka NCTU)

MSc in Computer Science

📅 Sep 2021 – Sep 2023

National Taiwan University of Science and Technology (NTUST)

89 credits of a Bachelor's Degree in Information Management

📅 Sep 2013 – June 2016

PROJECTS

NYCU Security Zone

A multi-tenancy identity-aware reverse proxy to protect school's web services. Build on K8s to provide high scalability

GoShare Analytics

Build a etl pipeline to automatic collect goshare usage log by reverse engineering, and analyze by BigQuery and D3.js.

ConnectGPT

A OpenAI API proxy for China developer use, implemented by Golang and use Caddy Plugin to record api usage and pricing.

AI Email Classify

Use Gmail API to collect my emails and submit to OpenAI Fine-tune API, create a email classify model for my daily use.

E-Voting

Successfully facilitated student government elections with over 3,000 users participating through the system. Implemented asymmetric encryption techniques to ensure fairness and confidentiality in the election process.

SKILLS

Python

SQL

Leadership

Communicate

Problem Solving

Project Management

EXPERIENCE

17 Media

Data Engineer & Analyst

📅 June 2017 – Dec 2018

- Utilized BigQuery to develop an automated ETL system to handle 200 million daily records generated by the 17 App.
- Optimized system performance and cost by refining data processing methodologies and infrastructure.
- Implemented an **automated data quality testing tool** by Python, can monitor data issues, enabling prompt resolution and ensuring data integrity.
- Designed over a dozen interactive dashboards for marketing and product teams to leverage data-driven insights for informed decision-making.
- Developed service for delivering personalized push notifications based on user behavior data, enabling the rapid distribution of hundreds of thousands of tailored messages in 10 minutes.

VMFive - MarTech Advertising Company

Data Engineer Intern

📅 Jul 2016 - Aug 2016

- Processed hundreds of GB of advertising logs on GCP Dataflow using Java, enabling data-driven insights and decision-making.
- Visualized the processed data into Sankey diagrams, providing a clear and concise representation of the user flow and behavior.
- Deployed Airbnb's Caravel to serve as a data dashboard platform, improving team collaboration and facilitating data-driven decision-making.

NewTalk - News Media

Software Engineer Intern

📅 March 2016 - June 2016

- Implemented Google, Facebook and Twitter OAuth function to existing account system.
- Refactor the JavaScript slide library on homepage, reducing the initialization time from 800ms to 1ms.
- Implemented several functions, including RWD interface, spam comments processing, advertising system, etc.

ACHIEVEMENTS

- NTUST Outstanding Youth in the College of Management
- MIT Media Lab – Future City Workshop Winning Prize
- NCCU Hackathon 2015 – Best Choice Award

CLUB EXPERIENCE

Students Information Technology Conference (SITCON)

Co-Founder & Finance Leader

📅 2014 – 2016

NTUST Students Government

IT Leader

📅 2014 – 2015

PHPConf

Chief of Venue Operations

📅 2012