Kuan-Yin Chen

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EDUCATION

Master of Computer Science
University of Illinois Urbana Champaign · Champaign, IL · 2022

Bachelor of Computer Science
National Chiao Tung University · Hsinchu, Taiwan · 2018

EXPERIENCE

Software Engineer
Houzz   **January 2021 – July 2021, Remote**
· Developed marketplace features including billing, orders, and coupon system to increase sales and user experience with PHP and React.
· Established Cypress E2E pipeline covering checkout process and enhanced unit test for development efficiency and system stability.
· Integrated Prometheus in the system to increase observability and migrated from dashboard from OpenTSDB to Prometheus.

Engineer
Trend Micro Inc.   **June 2019 – December 2020, Taipei, Taiwan**
· Architected threat analysis systems with hybrid-cloud microservice infrastructure, completely rewrote API in FastAPI, frontend in react, and analysis pipeline, which processed millions of malicious URLs and files per day with AWS Lambda, Batch, ECS, and Step Function.
· Reduced 90% processing time and saved 10000USD per month for network log scanning using parallelization and regex optimization.
· Led engineering teams to improve engineering system quality. Including type check in Python, TypeScript, and OpenAPI; Infrastructure provisioning using AWS CDK; CircleCI automation testing pipeline.

Software Engineer | Part-Time
Junyi Academy – NPO educational organization   **September 2016 – October 2018, Taipei, Taiwan**
· Established CI/CD infrastructure and practices to enhance development workflow with Gitlab CI and Kubernetes.
· Developed fundraising website in Django, including payment and CRM. Raised over 400000USD from 2300 people in two-month.

Software Engineer | Part-Time
National Chiao Tung University IT Center   **October 2015 – May 2018, Hsinchu, Taiwan**
· Architected campus OAuth authentication system in Django, with more than 30000 users.

Software Engineer | Part-Time
Industrial Technology Research Institute – NPO research institute   **June 2015 – June 2018, Hsinchu, Taiwan**
· Implemented machine learning methods for extraction of keywords and trends from Chinese datasets.
· Built crawlers and data analysis dashboards for Taiwan's top real estate, traveling, and e-commerce companies.

PROJECTS

Errk Health | Co-Founder
November 2020
· Co-Founded telehealth and data analysis solution for chronic diseases prevention, currently tested with 200 patients in the hospital.

NCTU.me Domain Hosting Service | Founder
October 2016
· Founded free subdomain and dynamic DNS service, achieved more than 6000 users and 10000 domains.

Does Who Matter | Research Project of Human Computer Interaction
Mobile and Ubiquitous Interaction Lab at NCTU · May 2017
· Designed and conducted HCI research toward mobile interruption, built Android App, data pipeline, and analysis.
· Published at ACM CHI (top Human-Computer Interaction conference) in 2019.

SKILLS

Language: Python, JavaScript, Shell, PHP, C, C++, Rust, Go

Web: Django, FastAPI, Flask, Node.js, React, Redux, Hooks, Vue, JQuery, GraphQL, MySQL, MongoDB, Redis, Memcached

DevOps: Docker, Kubernetes, AWS, Cloudformation, Google Cloud, Firebase, CI/CD, Selenium, Cypress, Grafana, Prometheus

Others: Product Design, Cloud Migration, System Refactor, ChatBot, User Experience Evaluation