Wei-Hsiang (Matt) Wang

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SUMMARY

- Backend engineer with strong DevOps expertise and hands-on experience architecting cloud infrastructure
- Tech lead delivering scalable distributed systems across domains including computer vision, logistics, and fintech, tailoring architectures to meet evolving product and business needs
- Active contributor & event organizer in the Taiwanese Python community

WORK EXPERIENCE

GoFreight   *Apr 2022 - present*

GoFreight is a leading vertical SaaS platform for logistics, optimizing freight forwarding operations and boosting overall efficiency.

Senior Backend Engineer & Tech Lead

Engineering Leadership & Enablement

- Spearheaded the launch of microservices and formalized GitOps CI/CD conventions (GitHub Action & ArgoCD) into company-wise service template. Accelerated deployment & slashed new service launch cycle from 10 days to 3 days.
- Scoped and decomposed major epics into clear deliverables, coordinating cross-functional teams of engineers, PMs, and international vendor partners to hit every go-to-market milestone.
- Mentored three interns and junior engineers through building production integration – ran pairing sessions and established code-review standards to boost team velocity and code quality.

Business & Revenue Growth

- Delivered various revenue-driving products—fintech financing solution, accounting integration, shipment security filing, and cargo tracking—which improved customer satisfaction and opened new upsell channels.
- Architected the API gateway & Webhook mechanism as the vital interface for GoFreight's extension ecosystem, enabling integrations with large enterprises and partners via various plugins & adapters.
- Stabilized and sunset the legacy payment platform, then led end-to-end development of a new payment solution, achieving more than a 10x uplift in transaction volume and revenue.

Service Reliability & Operational Efficiency

- Partnered with DevOps to introduce Grafana dashboards and alerting on CloudWatch, Elasticsearch, and Snowflake sources, standardizing incident response playbooks and cutting manual monitoring duration by 5 hours per week.
- Built executive dashboards that accelerate metrics reporting by 80% leveraging customized usage-collecting library, Snowflake, dbt, & Metabase, providing real-time product adoption insights and enabling data-driven decisions.
- Automated onboarding/transition workflows with internal UI to reduce operational tasks and accelerate time-to-value for new integrations.

Umbo Computer Vision   *Oct 2018 - Sep 2021*

UmboCV aims at revolutionizing the surveillance industry with cloud-based AI systems for detecting human or vehicle intrusion.

Backend Engineer - Cloud AI Team

CV Detection Services & Per-Video-Channel Performance Monitoring

- Developed multiple event-filtering logic based on motion value, deep-learning-model output mask analysis, and human-examining feedback. Raised system automate rate from 40% to 90% while sustaining 10x channel growth.
- Reconstructed event-based detection service from AWS Lambda to an HTTP server built on FastAPI & AWS ECS.
- Improved server throughput by 20% through serving with Gunicorn, handling I/O-bounded tasks asynchronously, and optimizing GIF generation, with metrics from load testing using Locust as proof.
- Assembled cross-services latency tracing dashboards with the association of alerting mechanism by utilizing New Relic Tracing, providing end-to-end visibility into the multi-stage AI pipeline's performance.

Human-in-the-Loop Service for Boosting Detection Accuracy

- Solved scalability issues by revamping the human-interacting mechanism with AWS API Gateway for WebSocket.
- Enhanced filtration logic based on a time-weighted scoring algorithm that boosted overall automation rate by 8% while achieving 98% recall rate.
- Reduced average request latency by 30% through MongoDB optimization, such as rectifying indexes to accommodate usage patterns, refining queries for index-covered query plans, & adopting read-write separation.
- Implemented ETL cronjobs deployed to AWS EKS with Helm for importing event metadata to Elasticsearch, which powers the customer usage analysis and system healthiness monitoring.

Open Source & Community Experience

Python Documentation Community

Event Host & Contributor *July 2021 - Present*

- Led volunteers to grow Python official document's Traditional Chinese translation coverage from 2% to ∼40%, and improved contributor efficiency by automating translation workflows and standardizing terminology.
- Hosted monthly Python doc translation meetups with accumulated >200 participants in the past 3 years, and organized translation workshops at conferences such as PyCon TW, COSCUP, sciwork, etc.
- Contributed improvements to the docs of various Python projects (CPython, FastAPI, etc.) and Sphinx linter.
- Co-organized CPython contribution workshop, facilitated participants through code build and setup processes.

PyCon Taiwan

Dev Lead & Mentor *Mar 2020 - Oct 2023*

- Led a team of 10+ volunteer developers to maintain the 2021-2023 official website and the proposal submission/ reviewing platform in Django.
- Rebuilt the frontend from scratch in Nuxt.js to replace the old Django templates for lower development and maintenance cost and better support of SEO and i18n.
- Administrated the GCP infrastructure for dev teams (web, data, and automation) and managed cost structure.
- Coached successor leaders on cross-functional collaboration, stakeholder communication, and project management.

Django Community

Contributor *2023 - Present*

- Contributed to Django projects such as model_bakery, data-spec-validator, dj-registry, and django-localflavor.

Technical Skills

Languages: Python, JavaScript (TypeScript)
Web Development: Django, FastAPI, Flask, Express.js (Node.js), Vue.js/Nuxt.js, TailwindCSS
Cloud Services: AWS (EC2, S3, ECS, SQS, Lambda, API Gateway), GCP
Databases: MySQL, MongoDB, Redis
CI/CD & IaC: Terraform, Serverless, GitHub Actions, ArgoCD, Jenkins, TravisCI
Logging & Monitoring: Grafana, Elastic Stack, New Relic
Data Engineering: dbt, Snowflake, BigQuery, Metabase

Selected Certificates

MongoDB Certified Associate Data Modeler	*Mar 2024*
AWS Certified Solutions Architect - Associate	*Aug 2023*
Redis Certified Developer	*Nov 2021*
HashiCorp Certified: Terraform Associate	*Nov 2021*
Astronomer Certification for Apache Airflow Fundamentals	*Nov 2021*

See additional certifications and course works on my LinkedIn.

Education

National Taiwan University

B.S. & M.S., Mechanical Engineering (Research Topic: Mechanism Design & Patent Analysis) *Aug 2012 - Aug 2018*