CHAO-YU LEE

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Full Stack Engineer experienced in building high-traffic and scalable web systems using React, Java, and Python. Skilled in DevOps, data pipelines, and integrating machine learning APIs to deliver reliable and intelligent products.

WORK EXPERIENCE

LINE Corporation   Taiwan, Taipei
Software Engineer   *Sep 2021 – Sep 2024*

LINE Invoice | Jan 2023 – Sep 2024
An automatic spend-tracking application
- Developed personalized daily notifications and integrated invoice categorization model, supporting the product's growth from 300K to over 1M+ users within one year.
- Redesigned a data synchronization pipeline for 3 million records in 48 hours, achieving zero data loss and restoring stability.
- Optimized the invoice lottery matching algorithm and refined database indexing, reducing processing time for 12M+ invoices from hours to under 30 minutes.
- Built Grafana dashboards to monitor 10+ Temporal workflows and millions of tasks, improving system reliability and issue traceability.

LINE Official Account Plus | Mar 2024 – Jun 2024
A marketing service for business on LINE chat
- Migrated 12 microservices to a Kubernetes cluster with zero downtime.
- Built Airflow pipelines orchestrating Jupyter notebooks and Spark jobs for automated creating user-tag.
- Developed React components with TypeScript to support user-tag management features.

LINE Travel | Sep 2021 – Dec 2022 (With 1-year Internship)
A travel platform combining discovery, booking, and cashback incentives
- Built a React-based content management UI for editors to manage travel promotional campaigns.
- Designed a high-performance async API aggregation service integrating five airline APIs for flight search.
- Enhanced observability and incident diagnosis by implementing OpenTelemetry tracing.
- Built a CI/CD pipeline using GitHub Actions and ArgoCD for automated testing and deployments.

PROJECTS

- ⧉ **Gemini-powered Knowledge Assistant**: Used LlamaIndex and Gemini API to create a lightweight Q&A system that summarizes and retrieves insights from local documents.
- ⧉ **Automated Article Generator**: Designed and implement an Apache Airflow DAG that preprocesses datasets and triggers AI-driven article generation workflows.

TECHNICAL SKILLS

Languages/Frameworks: TypeScript (React.js / Express.js), Java (Spring Boot), Go, Python
DevOps/Infra: Docker, Kubernetes, ArgoCD, Terraform, GitHub Actions, Grafana
Data/Messaging: MongoDB, Apache Airflow, Apache Kafka, Redis, Temporal.io, MySQL
Practices: CI/CD Automation, Clean Architecture, Unit/Integration Testing, Agile Development

EDUCATION & PUBLICATION

University of Washington   Tacoma, WA
Master of Computer Science   *Sep 2024 – Current*

National Taiwan University   Taipei, Taiwan
Master of Computer Science and Information Engineering   *Sep 2020 – Aug 2023*
🎓 Function Clustering to Optimize Resource Utilization on Container Platform, IEEE ICPADS 2023

National Cheng Kung University   Tainan, Taiwan
Bachelor of Computer Science and Information Engineering   *Sep 2016 – Aug 2020*