Jung-Che Chang

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EDUCATION

Oregon State University

Corvallis, Oregon

Master of Engineering, Computer Science

Sep 2022 - Dec 2024

Continued Success Scholarship

Tamkang University

New Taipei, Taiwan

Bachelor of Engineering, Computer Science and Information Engineering

Sep 2017 – June 2021

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, SQL, Shell Script

Frameworks/Tools: Spring Boot, Node.js, Kubernetes, Docker, React, REST APIs, Amazon Web Services (AWS),

Google Cloud Platform (GCP), CI/CD, Django, Grafana, Postman, Junit, Linux, Git

Databases: MySQL, MongoDB, Redis

WORK EXPERIENCE

American Energy Society, Software Engineer Intern

Palo Alto, CA | June 2023 – Sep 2023

Java, Spring Boot, React, JavaScript, Python, ETL pipelines

- Collaborated with a research team to develop an interactive global energy map using React and JavaScript, providing dynamic data visualization for over 10,000 users to explore energy trends
- Engineered robust RESTful APIs with Java and Spring Boot, optimizing system integrations, and enhancing data exchange functionalities across diverse platforms
- Automated ETL processes for extensive datasets from over 700 companies in 11 countries using Python, significantly increasing workflow efficiency by 25% and streamlining data operations
- Conducted comprehensive API testing and validation using Postman, achieving a 20% increase in bug detection, and accelerating resolution times by 15%

RDM Technology, Software Engineer Intern

Taipei, Taiwan | May 2021 – Aug 2021

JavaScript, Node.js, Express.js, RabbitMQ, MySQL

- Developed a management application, achieving a 25% reduction in data processing times and significantly enhancing operational efficiency
- Architected and deployed scalable backend solutions using Node.js and Express.js, incorporating RabbitMQ to boost message processing efficiency by 30%, effectively handling increased data throughput

PROJECTS

Cloud-native Banking Services System

Oct 2023 – Jun 2024

Java, Spring Boot, GCP, Kubernetes, Helm, Apache Kafka, Redis, Grafana, Prometheus

- Developed and deployed a microservices-based banking services system on Google Cloud Platform using Java and Spring Boot, orchestrated via Google Kubernetes Engine
- Enhanced system security by integrating OpenID Connect (OIDC), Keycloak, and Spring Security, effectively safeguarding the API gateway and ensuring robust authentication and authorization protocols
- Implemented event-driven architecture with Apache Kafka, significantly improving data processing speed
 by 30% and enhancing system scalability and responsiveness
- Engineered comprehensive observability and monitoring frameworks using Grafana, Loki, Promtail, Tempo, and
 Prometheus, thereby elevating system reliability and streamlining troubleshooting processes

Happy School

Feb 2024 – April 2024

Java, Spring Boot, CI/CD, AWS RDS, AWS Elastic Beanstalk

- Built a comprehensive school management application using Java, Spring Boot, and Thymeleaf, enhancing operational efficiency
- Architected and streamlined deployment processes via GitLab CI/CD pipelines, deploying applications to AWS
 Elastic Beanstalk, which minimized downtime and optimized deployment efficiency