

Kourtney Lee

SOFTWARE ENGINEER · BACK-END DEVELOPER

New Taipei City, Taiwan

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Summary

Skilled Sr.Back-End Engineer at a global VR company with 4+ years of hands-on experience in back-end development, microservices & containerization, and software architecture areas with a willingness to learn and practice back-end architecture design and development. Interested in devising a better problem-solving method for challenging tasks and learning new technologies and tools.

Skills

Programming Languages	Golang, C/C++, Python, Node.js, Shell Script, JavaScript
Back-end	MySQL, PostgreSQL, MongoDB, Redis, Docker, AWS, Chef Habitat, Jenkins
Front-end	React
Others	Vim, Git, Mac OS X, Linux

Work Experience

HTC Vive / Viveport

New Taipei City, Taiwan

SENIOR BACKEND ENGINEER

Sep. 2020 - Now

- Designed and implemented a distributed audio recording system for the metaverse platform to record and store audio data from multiple sources.
- Designed and implemented user accounts management service by integrating APIs with a cloud hosting third-party service as a part of the multi-platform SaaS product to standardize the way of user accounts management amongst different projects and mitigating code duplicity.
- Recommend, introduce and migrate to a high-performance asynchronous web framework to reduce 85% micro-services API response time.
- Participating in building and deploying overall service infrastructure utilizing Docker container, CDN, and several AWS stacks (including EC2, EKS, MongoDB, RDS, Route 53, S3, Lambda, and CloudWatch), focusing on high-availability, fault tolerance, and auto-scaling.
- Designed and implemented the 99.99% up-time RESTful APIs for the critical multi-platform application with over 90% unit test coverage, which provided a critical connectivity channel for distributed functionality and kept manageable code complexity with micro-services architecture.

InfoBoom Ltd.

New Taipei City, Taiwan

SENIOR SOFTWARE ENGINEER

Feb. 2020 - Sep. 2020

- Responsible for refactoring the existing WebRTC server infrastructure from monolithic to microservice to improve scalability and reduce cost.
- Responsible for the improvement of the core cryptography library of the instant messaging SaaS product with a higher security level to be fully ISO27001 compliant and Taiwan MAS compliant.
- Recommended, introduced and built fully automated CI/CD pipelines on GitLab for the business-critical multi-platform cryptography library using Docker, resulting in a 3x reduction of average deployment time.

Synology

Taipei, Taiwan

PRODUCT DEVELOPER

Dec. 2016 - Jun. 2018

- Developed new features for the mail server application in C/C++. Resulting in 10+ releases delivered just in time.
- Designed and developed new features for the mail server application to be GDPR compliant and data privacy compliance.
- Coordinated with engineering and product teams in the identification of customer requirements and development of new features for the mail server application.

National Taiwan University

Taipei, Taiwan

RESEARCH ASSISTANT

May. 2014 - Aug. 2014

Education

National Taiwan University

Taipei, Taiwan

M.S. OF COMPUTER SCIENCE

Sep. 2014 - June. 2016

- Thesis: Time-Sensitive Message Delivering with QoS in Named Data Networking

National Chiao Tung University

Hsinchu, Taiwan

B.S. OF COMPUTER SCIENCE

Sep. 2008 - June. 2013

External Projects

Video Converter

[HTTPS://VIDEO-CONVERTER-RHO.VERCEL.APP/](https://video-converter-rho.vercel.app/)

Video Converter is a web application that converts videos from numerous websites to other formats.

FastAPI Backend Boilerplate

[HTTPS://GITHUB.COM/KLEE1611/COOKIECUTTER-FASTAPI-MONGO](https://github.com/klee1611/cookiecutter-fastapi-mongo)

FastAPI Backend Boilerplate is a cookiecutter template for creating a FastAPI backend with MongoDB, including testing and Docker support.