

Luong Tan Khang

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EXPERIENCE

- **Intowow**

Backend Engineer

Sep 2022 - Present

- **Maintaining a GraphQL Federation Gateway:** This bridge connects the front-end to hundreds of backend microservices.
- **Developing RESTful microservices:** Building performant APIs that are easy to integrate with.
- **Established a data pipeline:** Maintaining a scheduled service that gathers and processes reports from external services, feeding valuable data into the Redshift data warehouse.
- **Integrated streamlined third-party API:** Built an API proxy service that helps internal services interact with a third-party service, which does not support API interaction, leading to brand-new product development and boosting revenue by **30%**.
- **Empowering business decisions:** Developed a data analysis service that provides valuable insights to the business team for informed decision-making.
- **Enhancing service reliability:** Implemented a robust monitoring system that proactively identifies anomalies in data, resources, and services, minimizing disruptions.
- **Automated solutions:** Implemented software and web browser plugin to automate interactions with third-party services that lack official APIs.
- **Secured sensitive information:** Developed a secure vault system based on Zero Knowledge Encryption to safeguard third-party account credentials.
- **Collaborating with the business team:** Working closely with the business team to continuously develop new features and resolve technical issues.
- Language/Technique: **NodeJS, Python, GraphQL, Redis, Redshift, MySQL, Docker, AWS.**

- **WAV**

Backend Developer

Oct 2019 - June 2020

- **Improved performance:** Successfully transformed a monolithic system into efficient microservices with an event-driven approach, achieving a **200%** performance boost.
- **Optimized user experience:** Implemented user behavior analytics and caching solutions to significantly reduce average response times for end-users from minutes to a few seconds.
- **Scalable microservices:** Leveraged AWS Lambda Functions to create highly scalable microservices capable of handling hundreds of thousands of requests per second.
- Language/Technique: **Golang, MySQL, Redis, ActiveMQ, AWS Lambda Function.**

- **Unicore**

Computer Vision Backend Developer

Aug 2018 - Sep 2019

- **Designed large-scale facial recognition systems:** Played a key role in designing robust facial recognition systems for access control in factories and buildings.
- **Face detection microservice:** Developed a dedicated microservice to detect faces in images, videos, and real-time streams.
- **Facial recognition and identification:** Built a microservice for recognizing and identifying individuals based on facial biometrics.
- **Live-streaming integration:** Implemented a live-streaming service that allows users to observe facial recognition results in real time.
- Language/Technique: **NodeJS, Python, RabbitMQ, Redis, PostgreSQL, Docker.**

EDUCATION

- **National Chung Cheng Univerisity - Taiwan** Feb. 2021 – Jul. 2022
Master of Computer Science and Information Engineering; GPA: 92.69/100.
- **HoChiMinh City University of Science - Vietnam** Sep. 2016 – Nov. 2020
Bachelor of Information Technology; Honor program; GPA: 8.23/10.

RESEARCH EXPERIENCE

- **Computer Network and Communication Laboratory (HoChiMinh City University of Science)**
Deep Learning Researcher Jan 2019 - Mar 2020
 - DDoS attack and defense in Software Defined Network.
- **Embedded Systems Laboratory (National Chung Cheng University)**
Deep Learning Researcher Feb 2021 - Jul 2022
 - Abnormal electricity demand detection.
 - Forced labors fishery vessels recognition.
 - Facial expression recognition.