

Igori Hwang

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PROFESSIONAL SUMMARY

- I am a dedicated Principal Backend Engineer with around 10 years of extensive experience in event-driven systems, modular architectures, and secure enterprise APIs.
- Proficient in microservice architecture and event-driven backend, created and improved the architecture and development of systems tailored for both startups and large corporations. Backend solutions and end-to-end projects completed for Samsung, LG, Hyundai. My career mostly consists of being a **Founding Engineer** in various startups.
- My expertise spans enhancing system performance, and leading development teams to streamline operations and improve efficiency. I thrive on tackling technical challenges and leveraging my skills to improve client satisfaction and operational reliability.

WORK EXPERIENCE

Principal Engineer, NDA (EDT zone)

Sep 2024 – NOW

NDA company is a US organization, provides assessment tools for exams and examinees in particular area.

- Building v2 of backend (migration from monolith + outdated relational database to full cloud + DynamoDB solution)
- Built query builder in order to get sets of data more efficiently and clearly in UI (idea to production)
- Fixed issues with serverless architecture by combining Lambdas to Step Functions (with X-Ray). Investigated aws costs and cut them by 70%. Reduced backend response times from 4 to 1 second (assuming full cloud setup). The system is Appsync GraphQL to API Gateway to standalone Python Lambdas. Implemented authentication/authorization layers with OAuth2/JWT and enterprise-grade IAM policies..

Senior Backend Engineer / Solutions Architect, OP Return SA (GMT+2)

Aug 2022 – Sep 2024

Colibri is a digital asset trading aggregator (quantitative trading, market making) and in-house software development

- Addressed tracing challenges within NATS environments by integrating solutions with Loki, Grafana, Prometheus, and OpenTelemetry, enhancing system observability and debugging capabilities with logging, metrics, and distributed tracing.
- Identified and resolved a high cardinality issue, optimizing NATS client performance and achieving a 10% improvement in efficiency. Profiled and optimized container memory footprints for trading workloads under heavy load.
- Maintained 85% of Python FastAPI microservices, prioritizing smaller, critical tasks to streamline operations and enhance service reliability. Also was in charge of optimizing CI/CD pipelines for microservices with automated tests and deployments

Software Developer, Tagby (GMT+9)

Jun 2020 – Jun 2022

is a comprehensive SaaS service for content and influencer marketing to the general public

- Emerged as the informal lead in Flutter development by orchestrating CI/CD pipelines, establishing project deadlines, and prioritizing tasks to streamline development processes.
- Instrumented and configured 80% of the company's DevOps pipelines, significantly improving deployment efficiency and operational reliability.
- Led migration from a legacy PHP monolith (backend + frontend) to a modern architecture with a Django core backend, FastAPI microservices, and separate frontend. Designed the initial structure, planned and executed migration, resulting in faster deployments, thorough documentation, and improved maintainability and transparency.

Freelance Developer

Jan 2019 – Mar 2020

- Successfully delivered more than 20 commercial projects from idea to production, maintaining continuous client communication, while concurrently mastering advanced skills in React and Next.js

Software Engineer, Rebel9 (GMT+9)

Mar 2016 – Dec 2018

is a company that provides interactive solutions for museums / exhibitions and various events.

- Engineered embedded software and scripts leveraging advanced libraries and frameworks such as OpenCV, PIL, numpy, scipy, TensorFlow, and KoNLPy to deliver cutting-edge immersive experiences to users.
- Successfully executed the backend development for over 15 diverse projects, ensuring robust and scalable solutions

SKILLS

Languages: Python, Typescript, Javascript, Dart, SQL, NoSQL

Technologies: FastAPI, OAuth2, Panini, Django, Vault, Docker, MySQL, PostgreSQL, MongoDB, NATS(Redis, RabbitMQ)

OPEN SOURCE

<https://github.com/lwinterface/panini>

<https://github.com/i2gor87/baguni>

Core maintainer

Owner

PROJECTS

Backend, Team Lead, Fold for TryGalaxy, for Samsung: trygalaxy.com

05 2023 – NOW

- Reduced connection times to a minimum for the Fold project by developing and fine-tuning complicated backend logic, as evidenced by improved performance metrics while directing a team of three developers, accelerating the project's development and deployment to production.
- Engineered the initial CSS layout that allowed two separate phones to mimic the unfolded Fold device as a single continuous display, solving the core technical challenge and making the project feasible.