# **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- Building v2 of backend (migration from monolith + outdated relational database to full cloud + DynamoDB solution)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.