

Seunghoon Shin

SOFTWARE ENGINEER · BACKEND

Seoul, Republic of Korea

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Summary

Experienced backend engineer with over 7 years of expertise in building robust systems.

Striving to design **scalable, maintainable architectures** with a focus on efficiency. Aiming to choose the **right technologies for each situation** and optimize both technical and team workflows.

Discovering the open culture of the IT industry led me to software development. The support I received shaped my growth, and now I strive to give back and inspire others.

Skills

Programming Languages	Go, Python
Frameworks	gRPC-Gateway, Django, Flask, Scrappy
Database	MySQL, Redis, Neo4j, TimescaleDB, Milvus
Infrastructures	GCP, AWS, Docker
Languages	Korea(native), English(Business)

Work Experience

AO Labs

Seoul, S.Korea

BACKEND ENGINEER

May. 2024 - Present

Market service *Go, Redis (Pubsub & Stream), TimescaleDB (PostgreSQL)*

- Designed and implemented a service that dynamically subscribes to and processes real-time market data, including token prices.

Backend of a Blockchain-based Service *Go, gRPC, GCP, Cloud Run, GCP Pubsub, MySQL*

- Subscribed to and indexed blockchain data.
- Developed an admin tool using low-code platform(Retool).

Mathpresso, Inc.

Seoul, S.Korea

BACKEND ENGINEER, TEAM LEAD

Jan. 2022 - May. 2024

Lab Development Team Lead

Oct. 2022 - Mar. 2023

Led a team of around 5 backend engineers, responsible for the QADNA service's problem search engine and data collection to indexing.

- Focused on maximizing individual strengths to improve team performance.
 - Identified strengths and set career goals through regular one-on-one meetings.
- Created an environment for fast and smooth communication to enhance team productivity.
 - Streamlined meetings and fostered a positive atmosphere.

Content Platform TF Lead

Mar. 2023 - May. 2024

Managed a team of about 7 members, including engineers, domain experts, and service operators, aiming to efficiently create and manage large volumes of high-quality problem/solution data.

- Communicated with various stakeholders and participated in business decision-making.
- Supported the team in sharing common goals while utilizing resources for different missions.
 - Established quantitative key performance indicators.
 - Presented expected outcomes based on goal achievement.

Backend Engineer

Jan. 2022 - May. 2024

Knowledge Graph *Go, Neo4j (graphDB)*

Project to flexibly manage relationships between key models in math education (e.g., problem types, concepts, prerequisite and subsequent concepts).

- Participated from the planning phase to systematize from conceptual units to curriculum, utilizing concept-based data such as problem labeling.

Data Pipeline *Go, MySQL, GCP, AppEngine*

- Developed data collection, processing, and pipelines for search engines, AI learning, and content services.

Problem/Solution Resource Service *Go, MySQL, Neo4j*

- Managed and optimized problem/solution data.

Image Search *Go, Milvus (Vector DB)*

- Built an image search service by integrating in-house Image Embedding models with vector databases.

Kasa Korea Co., Ltd.

Seoul, S.Korea

BACKEND ENGINEER

Jul. 2019 - Sep. 2021

Kasa Service Web Server. *Django, DRF, MySQL, redis*

- Contributed project from scratch and experienced in early stages of operation.
- Implemented Authentication, Public Offering, Ledger services. Designed entity-relation and REST API.

Omnious. Co., Ltd.

Seoul, S.Korea

BACKEND ENGINEER

Nov. 2017 - Jul. 2019

Labeling Tool

- Maintained backend of in-house web application having 50+ active users for collecting fashion data to train AI model.

Docker, CircleCI, Rancher, AWS(EC2, S3, RDS)

- Designed RESTful HTTP API, developed server serving them. Documented API specification for communication.

flask, NGINX, uWSGI, Swagger

- Established relation of domain model, designed database schema.

MySQL

- Built HTTP access logging system and pipeline to store it.

fluntD, fluent-bit

- Introduced unit testing, style guide of codebase.

flake8, pytest

Data Extraction & Transformation *pandas, Celery*

- Extracted collected data to train AI model and pre-processed in a form that is easy to train.
- Automated process from data extraction to data processing, developed CLI tool to access automated data transfer system.

Crawler *Scrapy, ScrapingHub, Zappa, AWS(SNS, SQS, Lambda)*

- Implemented 20+ web crawlers for collecting fashion images, developed a scheduling tool for management.
- Built serverless pipeline that stores crawled data in a storage.

LINE Corp.

Gyeonggi-do, S.Korea, S.Korea

SOFTWARE DEVELOPER INTERN

Apr. 2017 - May. 2017

Targeted Video *Swift, OpenCV*

Developed an iOS app for isolating and modifying desired objects in videos.

- Used technique of contour extraction, image segmentation and stabilization.
- Implemented video editing function that cuts or pastes object user selected.

Education

BoostCamp, Connect Foundation education program

iOS COURSE

Seoul, S.Korea

Jan. 2017 - Feb. 2017

- Developed iOS Application, "Color to Sound, Sound to Color! ChromaTone"
 - <https://github.com/newinh/ChromaTone>

Konkuk University

B.S. IN ELECTRONICS

Seoul, S.Korea

Mar. 2009 - Feb. 2016

- Graduation piece, "IOT Door Lock using Wireless Home Router & Android Device"