

Wonbo Shim 심원보

Data Scientist & Backend Engineer · MSc Biomedical Informatics candidate

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PROFILE

Software engineer turned data scientist, now retraining in health data. Six years across live game development, NLP product engineering and commercial analytics — shipping client features for a title that reached ten million players, building question-answering APIs in production, and turning fragmented catalogues and storefronts into datasets teams could actually report on. Currently reading for an MSc in Biomedical Informatics at the National University of Singapore, pairing that engineering background with clinical and statistical grounding. Native in Korean and English. Open to roles and research collaborations in Singapore.

EXPERIENCE

Data Analyst

Oct 2025 — Jul 2026

AIVE Labs · Seoul, South Korea

- Ran monitoring and reporting for LG Electronics Global, covering the LG.com home appliance and air conditioner storefronts across multiple regions.
- Produced the monthly analytical read on site health — SEO and GEO competitiveness, content integrity and performance trends — for the global digital marketing and commerce teams.
- Maintained a CRM application built with AmorePacific's New Commerce team to support sales operations, monitoring usage and performance and delivering daily, weekly and monthly reporting for decision making.

Data Analyst

Mar — Jun 2025

Purple Academy · Seoul, South Korea

- Consolidated and structured metadata for over 80,000 books into a SQL-based dataset, reducing retrieval time by more than 60%.
- Graded English vocabulary collected from textbooks into difficulty levels by school year, enabling systematic classification of book content.
- Designed a department-level data mart integrating students, courses, learning materials and books, cutting reporting from days to hours.
- Built the foundational dataset for rebuilding the book recommendation system, and tracked KPI metrics for the academy's public platforms.

Manager, Question Answering

Oct 2021 — Jul 2022

42Maru · Seoul, South Korea

- Contributed to API development for the company's AI-powered question-answering solution.
- Built RESTful APIs in Python and FastAPI for member management and the QA product, improving response times by roughly 35%.
- Handled deployment with Docker and AWS, and owned data formatting and the pandas analytics pipelines behind the product.
- Served as Industrial Technical Personnel under alternative national service.

Junior Software Engineer

May 2020 — Oct 2021

Kong Studios · Seoul, South Korea

- Developed client-side quest and gameplay features for *Guardian Tales*, through a global launch across more than 230 countries — 10M+ downloads and a 4.9/5 rating within its first months.
- Built management tooling for in-game content updates and real-time event handling, cutting deployment time by about 40%, customer ticket resolution by about 30% and downtime on urgent fixes by about 25%.
- Designed data mining pipelines analysing player behaviour, quest completion rates and in-game purchase patterns against revenue.
- Contributed to the studio's official and Japanese game websites, supporting market entries in China (#1 free game on the App Store at release) and Japan.
- Coordinated database migration and cross-region data transmission for the China branch.
- Served as Industrial Technical Personnel under alternative national service.

EDUCATION

MSc, Biomedical Informatics

Aug 2026 — Jul 2027

National University of Singapore · Singapore

In progress. Coursework across clinical decision support, bioinformatics and health sciences for non-clinicians.

AIVLE School — AI Developer Track

Aug 2023 — Jan 2024

KT (Korea Telecom) · Seongnam, South Korea

Six-month intensive AI development programme, completed with the Team Argo capstone described below.

B.E., Computer Science and Engineering

Mar 2015 — Aug 2023

Korea University · Seoul, South Korea

- GPA 86.6/100. Studies interrupted by national service.
- Exchange student, Institute of Science Tokyo (Tokyo Tech), Mar — Aug 2019.
- Member of CATDOG (game development) and KUICS (information security).

Computer Science

Sep 2014 — Feb 2015

Stony Brook University · New York, United States

GPA 4.5/4.5. Left to transfer to Korea University.

Secondary education

2010 — 2014

Tashkent International School · American School of Dubai

IB Diploma Programme, Tashkent (2013 — 2014). High School Diploma, Dubai (2010 — 2012).

SELECTED PROJECTS

Argo — AI onboarding assistant

Aug 2023 — Jan 2024

Team lead · KT AIVLE School capstone

- Led the project end to end: requirement definitions, UML diagrams, Agile sprints and customer feedback loops, delivered on schedule.
- Built an onboarding chatbot on the GPT API and BERT that absorbed repetitive HR question answering, reducing HR workload by roughly 50% and onboarding time by about 25%.
- Applied KNN and Random Forest models to classify user behaviour and personalise training paths.

tefoma — strategy reference

2026

wonbo.site/tefoma

A React and TypeScript single-page app serving a board game strategy guide, driven entirely from Markdown and JSON so contributors can propose edits by pull request. Deployed continuously through GitHub Actions.

Customer shopping trends analysis

2025

github.com/zaGamer95/portfolio1

Exploratory segmentation of a public retail dataset by spend, category preference and season, cross-checked in SQL against the notebook findings.

SKILLS

Programming

Python · SQL · Java · JavaScript / TypeScript · React · Lua

Data & AI

Data analytics · data mining · NLP · pandas · NumPy · scikit-learn · PyTorch · TensorFlow · JAX

Engineering

RESTful APIs · FastAPI · full-stack development · Agile · project management

Cloud & tooling

Docker · AWS · Google Cloud · Git

Languages

Korean (native) · English (native) · Japanese (intermediate)

CERTIFICATIONS & TESTS

AICE Associate, AI Specialist Certification — KT

OPIC, Advanced Low — ACTFL

TOEFL 110 — ETS

SQL Developer (SQLD) — Korea Data Agency

TOEIC 990 — ETS