

Lim Donghyun

Software Engineer

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Portfolio | GitHub | Blog

Software Engineer with hands-on experience in AI/LLM integration, mobile app development, and full-stack product delivery. Built and shipped a production mobile app (Perch) to the App Store with AI-powered health features, and co-authored an LLM-based quantitative research paper accepted at APAF. Currently developing cross-platform applications at a Beijing-based startup.

SKILLS

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| Languages | Python, Dart, TypeScript, Swift, SQL |
| Frameworks | Flutter, FastAPI, React, Next.js, SwiftUI |
| AI / ML | PyTorch, TensorFlow, LangChain, GPTQ/AWQ Quantization, RAG, Computer Vision (YOLO) |
| Tools | Claude Code, Cursor, Docker, Git, GCP, Hugging Face, Supabase |

EDUCATION

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| B.S. in Computer Science, Hanyang University Minor: Entrepreneurship Convergence Micro-major: Industrial AI Key Coursework: Operating Systems, Database Systems, Computer Networks, Data Structures, Algorithms, Artificial Intelligence | Sep 2021 — Present (Senior) GPA: 3.36 / 4.5 |
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EXPERIENCE

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| Software Engineer Intern <i>Cognitive Beyond (Beijing) Technology Co., Ltd.</i> | Jan 2026 — Present Remote |
| • Developing cross-platform iOS/Android applications using Claude Code, accelerating feature delivery in a remote-first team • Building Shopify-based e-commerce storefronts and admin dashboards for independent brand operations | |

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| Undergraduate Research Intern <i>Hanyang University Business School — Quantitative Analytics Lab</i> | Mar 2025 — Jul 2025 GitHub Seoul, Korea |
| • Co-authored “Can ChatGPT Forecast Returns in the Korean Stock Market?” accepted at APAF Conference • Analyzed ~500K Korean news articles using GPT-4.1 for sentiment-based stock trading strategies • Achieved 11.91% cumulative return vs. KOSPI’s -14.43% decline in backtesting evaluation | |

ACTIVITIES & PROJECTS

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| Perch — AI Pet Bird Health Platform <i>Team Lead & App Developer</i> | 2025 — Present GitHub perch.ai.kr |
| • Built full-stack mobile app (Flutter + FastAPI + PostgreSQL) with AI-powered health consultation • Deployed to App Store and grew user base through Naver Cafe marketing with ongoing user support • Developed proprietary Bird Health Index (BHI) algorithm analyzing weight, food, and water intake data • Secured funding from Hanyang University Startup Support Center for continued operation | |
| LG Aimers 8th Cohort — LG AI Research <i>AI Education Program</i> | Jan 2026 — Feb 2026 |
| • Participated in hands-on LLM compression program applying GPTQ/AWQ quantization on EXAONE-4.0-1.2B | |
| HARU (Home Adaptive Routine Understanding) — LG Electronics IC-PBL <i>Software Engineering Course Project</i> | Sep 2025 — Dec 2025 GitHub Hanyang University |
| • Developed iOS app (SwiftUI) and backend (FastAPI, Supabase) for LLM-based smart home automation in a 4-member team • Integrated Apple Watch health data (HRV, heart rate, sleep) for context-aware home control; delivered final prototype demo to LG Electronics panel | |
| Nexon Foundation Hello Mate <i>Coding Education Volunteer</i> | Sep 2025 — Jan 2026 |
| • Designed and operated coding education curriculum for elementary students using Hello Maple platform • Planned lesson content, led hands-on sessions, and managed class operations end-to-end | |

AWARDS

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| Grand Prize , Hyundai NGV HYPER AI Hackathon | GitHub Jan 2026 |
| 1st Place , FORIF Hackathon Ideathon — Hanyang University Programming Club | Dec 2025 |
| 3rd Place , Hyspark Demo Day Challenge Track — Hanyang University Startup Club | Jul 2025 |
| 2nd Place , Hanyang Cryptography Competition | Oct 2024 |