Rae Jin

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Product Engineer with 8+ years of experience building and shipping AI/ML enterprise software systems for major financial institutions.

- Combines rapid prototyping, client discovery, product definition, and systems thinking, with a focus on transactional workflows spanning spend data, policy rules, and payments-adjacent risk.
- 3× hackathon award winner and solo builder of end-to-end AI agent systems with evaluation frameworks and an iOS app built with SwiftUI, currently in TestFlight beta.

CORE SKILLS

- **Languages:** Python, TypeScript/React, Swift/SwiftUI, SQL (PostgreSQL, Oracle)
- **Applied AI & Engineering**: LangGraph, MCP, A2A, agent orchestration, RAG, Gemini and Claude SDKs, Vertex AI Agent Builder, LightGBM
- **Platform & Infra:** FastAPI, Cloudflare Workers, Supabase, Firebase, MongoDB, Stripe billing integration
- **Product & Systems**: AI agent architecture, rapid prototyping, PRD development, workflow and system architecture, data modeling, API integration, evaluation design, quantitative research, enterprise deployment

PROFESSIONAL EXPERIENCE

Hyperlearning Fractional Product Manager San Francisco, USA 2026 – Present

- Leading product strategy and design for an AI-powered assessment tool tailored to educators in the U.S.
- Driving U.S. market proof-of-concept (PoC) engagements for newly introduced products, collaborating remotely with the Korea-based headquarters.

Studio Cadinal Founder/Engineer San Francisco, USA 2026 – Present

- Independent product studio building and shipping AI-native software, end-to-end and solo.
- **Climatico:** Built an AI-native platform where agents ingest startup operational data, model current and projected climate impact, and generate actionable insights to guide business decisions before scaling. 1st Place, Internal Tools Track, Agent Natives Hackathon (Cloudflare SF).
- **PeriCare**: Built an iOS women's health app focused on perimenopause and menopause using SwiftUI, Apple Foundation Models, and HealthKit for on-device insights. Completed TestFlight beta testing; preparing for App Store release.

PwC Consulting Manager, Financial Services Seoul, Korea 2021 – 2025

- **Led AI/ML and financial-technology engagements for banks, insurers, and financial institutions**, combining client discovery, workflow analysis, product definition, and technical prototyping.
- **Enterprise LLM Deployment**: Defined the generative AI adoption roadmap across 43 banking and administrative workflows for NH NongHyup Headquarters. Managed 3 of 7 PoCs, analyzing operational constraints and building functional prototypes to evaluate on-premise LLM deployment. Automation reduced average task time by up to 77%.
- **Insurance Product Engineering**: Designed predictive rider-recommendation and LLM-assisted enrollment workflows for Shinhan Life. Revised the core PRD, reducing projected LLM token costs by ~17%.
- **Risk & Misconduct Modeling**: Built a LightGBM-based employee misconduct and internal-risk prediction model for Saemaul Credit Union, covering data from more than 3,200 branches. Designed auditable data-processing pipelines and interfaces for investigating high-risk cases.
- **Led process and system architecture** for Hana Securities in preparation for Korea's proposed financial investment income tax regime.

Stealth Startup Founder, Consultant Seoul, Korea 2021

- Designed and defined gyroscope-based head tracking, spatial-feedback logic, and multi-sensor synchronization required to translate clinical rehabilitation protocols into an interactive mobile-VR system with Yonsei University Medical School.

LG CNS Consultant, AI & Product Engineering Seoul, Korea 2018 – 2021

- **Digital Banking**: Prototyped and delivered personal-spending management features and behavioral nudges for KB Kookmin Bank's Star Banking platform.

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- **ML Product Delivery**: Worked as product lead and data-science consultant for NH Bank, KB Card, and Shinhan Card, building personalized recommendation and spending-prediction systems in Python and translating model outputs into customer-facing product experiences.
- **Deep Learning Research**: Won LG CNS's internal innovation competition for research on applying CNN architectures to transformed structured data. first-authored the technical research and received two patents related to consumer-behavior analysis and purchase prediction.

Able Consulting Associate Consultant Seoul, Korea 2017 – 2018

- **AML / Fraud Systems**: Implemented AML and fraud-detection systems for KBank, Kiwoom Securities, and Hana Securities. Developed Oracle SQL batch-processing logic to evaluate large-scale transactional data against rule-based risk models.
- **Healthcare ML**: Developed a Python-based patient visit-purpose prediction model for Samsung Seoul Hospital to support emergency-department resource planning and triage.

EDUCATION

- MDes Interaction Design — California College of the Arts
- Graduate coursework in Sociology — Seoul National University
- B.Sc. Mathematics — Seoul National University

ADDITIONAL HIGHLIGHTS

- **Hackathon Winner:** 1st Place Internal tools track, The Agent Natives Builders Hackathon (2026);
  2nd Place ApeChain Track, SF CrossChain Hackathon (2026);
  Nano Banana Award & 3rd Place, DeepMind/Qdrant Hackathon (2025).
- Taught an **Agentic Coding workshop** for CCA Faculty and Staff (San Francisco, 2026).
- **Solo Media Art Exhibition** "Segment Dance" – MOVDOT, Seoul (vvvv Stride, Fuse) (2024)
- **Patents** : KR20210079886A, KR20210081161A – Customer Behavior Analysis & Purchase Prediction (2021)
- **LG CNS CEO Award** for successful completion of hyper-personalized analysis consulting (2019)
- **Languages** : Korean Native | English Professional | Japanese Professional (JLPT N1)