

Suin Kim

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Seoul, South Korea

EDUCATION

Korea University

B.A. in Linguistics & B.S. in Computer Science (Double Major)

Seoul, South Korea

Mar. 2020 – Aug. 2024

GPA: 4.04 / 4.5 · Relevant Coursework: Database Systems, Operating Systems, Machine Learning, NLP

EXPERIENCE

LG CNS (Build Center)

Software Engineer

Seoul, South Korea

Sep. 2024 – Present

- **AI-Driven Design Prototyping (Internal PoC):** Led the end-to-end development of an automated UI prototyping system that generates code from User Journey Maps.
 - **Optimized** retrieval accuracy by building a **Multi-modal RAG** pipeline with **Gemini Pro Vision** for automated UI metadata enrichment.
 - **Engineered** a custom **MCP (Model Context Protocol) Server** to bridge vector databases with **Cursor Agent**, automating HTML/CSS generation.
 - **Reduced** design inconsistencies by implementing self-correcting agent loops using **LangGraph** (Analyze-Search-Generate-Evaluate).
- **Insurance Agent Workflow PoC:** Collaborative development of an enterprise AI agent for insurance operations using **Claude SDK** and **FastAPI**.
 - **Integrated** AI capabilities into legacy web-based systems without API access via a **Chrome Extension (Manifest V3)**.
 - **Orchestrated** complex multi-step backend logic for tool-calling and skill management to automate core insurance business operations.
- **Global Recruitment Platform Development:** Frontend development for global-scale hiring system using **Next.js**.
 - **Scaled** the platform for global markets by managing **i18n** strategies and optimizing **SSR/SEO**, supporting multi-regional UX requirements.
- **Technical & AX Mentoring:**
 - **AX Incubation Camp:** Assistant instructor for 20+ engineers, leading hands-on sessions on AI-assisted coding and LLM application design.
 - **AX Learning Crew:** Mentored peers on practical Agentic Workflows, fostering an AI-native development culture within the center.

Software Engineer Intern

Jan. 2024 – Feb. 2024

- **Internal Operations Platform:** Built a full-stack platform using **NestJS** and **MongoDB** to automate manual data collection for **100+** members within the Build Center.

PROJECTS

ASKu (University Festival Betting Platform)

Backend Developer

Mar. 2023 – Jun. 2023

- **High-Traffic Handling:** Managed **31,000+** real-time events and 2,600+ visits over 3 days by optimizing **Node.js** and **MySQL** query performance.
- **Concurrency Control:** Integrated **Redis** for session caching and rapid data access, ensuring zero downtime during live betting spikes.

ASKu (Campus Information Wiki)

Full-stack Developer

Mar. 2023 – Aug. 2024

- **Database Automation:** Implemented **MySQL Triggers** to automate real-time notifications for discussion updates and activity-based rewards.
- **Information Retrieval:** Engineered a centralized search system to aggregate fragmented campus data into a single, searchable format.

OPEN SOURCE

python-mysql-replication

Contributor

2023

- **Technical Impact:** Implemented critical binlog events (`RandEvent`, `UserVarEvent`) and resolved complex charset (`Latin1`) compatibility issues in the core engine.
- **Recognition:** Merged **10+** PRs via the Open Source Contribution Academy, receiving the **Outstanding Award** from NIPA.

SKILLS & LANGUAGES

- **Tech Stack:** Python, TypeScript, Java, FastAPI, Spring Boot, NestJS, React, Next.js, LangGraph, MySQL, MongoDB.
- **Specialized In:** AI Agent Design, Prompt Engineering, DB Design, Technical Mentoring.
- **Languages:** Korean (Native), English (Fluent), Chinese (Conv.), Japanese (Conv.).
- **Consistency:** 2,000+ day Duolingo streak