

Jaeyoung Ahn

FULLSTACK SOFTWARE ARCHITECT

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ABOUT

A technology leader who has driven architecture design, stack decisions, and code quality management at early-stage startups, delivering rapid product launches on a stable technical foundation. Grounded in end-to-end full-cycle experience, I champion an agile development culture focused on frequent MVP releases and fast product-market fit discovery through continuous customer feedback. Across diverse domains including logistics, healthcare, clinical research, and SaaS, I have directly experienced how technology translates into business outcomes, and I thrive in organizations where the engineering team moves in lockstep with sales and marketing to maximize impact.

EXPERIENCE

2025.08 — Present
10 mo
Hwaseong, South Korea

Technical Lead Perfectory Inc.

A solo, full-stack effort to design and build the entire technology stack for 'Gongzzang', an industrial real estate proptech platform. Single-handedly developing the whole microservices monorepo — backend, frontend, mobile, LLM, data pipeline, auth, and infrastructure — and modeling a complex real estate domain with a DDD + CQRS architecture. I personally design and implement the LLM-powered features, elevating AI into a core product value, and the platform keeps expanding fast along its roadmap (mobile app, new data layers, and more).

- Solo-architected a DDD + CQRS system — encapsulated a complex real estate domain into aggregates and separated writes (JPA) from reads (jOOQ) to optimize spatial map queries and large-scale compound reads
- Built the AI listing-description engine end to end — a LangGraph workflow analyzes listing data and streams the description, key highlights, and keywords in real time; personally designed the LLM security layer with prompt-injection defense and output masking
- Map-based composite search UI — integrated multiple layers (court auctions, actual transaction prices, industrial complexes, building deterioration) into a single map; sustained high-volume performance with an abstract-class marker system and Canvas rendering
- Public-data ETL pipeline — cleaned and loaded data from multiple government sources, refreshing it with zero downtime via atomic table swaps
- Infrastructure as code and zero-downtime delivery — managed the entire infrastructure with IaC, ran Blue/Green deployments, and built CI/CD that auto-ships only the services that changed
- Single-handedly owning the full cycle — from planning through design, development, deployment, and operations — across the user and admin web apps and the mobile app, on an active project that keeps expanding along its roadmap

Kotlin Spring Boot JPA jOOQ PostgreSQL PostGIS Next.js React TypeScript Tailwind CSS
Capacitor Naver Maps Mapbox GL Zustand LangGraph FastAPI Python Polars AWS ECS Pulumi Redis
Elasticsearch Keycloak

2021.12 — 2025.05
3 yr 5 mo
Seongnam, South Korea

Chief Technology Officer Sprint Inc.

Drove the full product lifecycle — from ideation and design through development, deployment, operations, and iteration — at a seed-stage startup, delivering technology-driven products capable of responding rapidly to market demands. Generated tangible business outcomes through full-stack capability spanning backend, frontend, mobile, and cloud infrastructure, underpinned by a flexible Domain-Driven Design (DDD) architecture.

- AI Diet Feedback System — Automated LLM-based feedback generation with LangChain; designed a modular prompt architecture and LangServe API server; instrumented performance logging with Langfuse
- Advanced Korean Food Search Engine — Implemented high-precision search using ngram and Jamo analyzers combined with synonym and dictionary-based matching; applied Pinned Query weight control and zero-downtime dictionary deployments
- Trainer Booking and Schedule Management System — Built an Angular + FullCalendar UI; resolved concurrent booking conflicts with Optimistic Locking; structured booking policies at the domain level
- Hybrid Billing and Payment System — Supported concurrent pay-per-use and subscription models; integrated multiple payment methods via PortOne API; automated payment workflows through domain events
- End-to-end ownership from conception to deployment; maintained service stability through CI/CD, zero-downtime deployment, and observability-driven operational practices

Kotlin Spring Boot JPA jOOQ Flyway Angular TailwindCSS AWS ECS Aurora S3 Terraform
CloudFront LangChain LangServe FastAPI Langfuse Elasticsearch

2021.08 — 2021.12
4 mo
Hamburg, Germany

Fullstack Java Engineer
Clariness

- At a clinical trial platform company, led the DDD-based restructuring of a legacy project, maintained Next.js/Nest.js applications, and designed survey functionality for clinical studies.
- Led legacy project restructuring using DDD — separated patient, research center, and survey domains; defined Aggregates; applied Domain Events, Value Objects, and CQRS patterns
 - Refactored and performance-optimized the Next.js frontend and Nest.js backend; refined API specifications
 - Designed the UI/UX and data model for clinical study surveys — including skip logic, multiple response types, and data integrity guarantees

Java Spring Boot Next.js NestJS DDD CQRS

2020.03 — 2021.07
1 yr 4 mo
Hamburg, Germany

Software Engineer
Container xChange

- At a container logistics platform, contributed to backend and frontend development and led the microservices architecture design for the financial module.
- Java Spring Boot Backend — Optimized data retrieval performance using DTO Projection and Native Queries; established a robust unit and integration testing framework
 - Angular Frontend — Designed a reusable UI component library; implemented Redux-based state management and RxJS optimizations
 - Led Financial Module Microservices Architecture Design — Applied DDD-based domain modeling, Hexagonal Architecture, Rich Domain Model, CQRS, Domain Events, and Saga Pattern
 - Served as the technical communication bridge between product and engineering teams; collaborated effectively in an international, English-speaking environment

Java Spring Boot Angular Redux RxJS DDD Hexagonal Architecture Microservices

2019.02 — 2020.02
1 yr
Hamburg, Germany

Software Designer
PORTRIX LOGISTIC SOFTWARE GmbH

- At a logistics software company, spearheaded the development of a next-generation Freight Management System and independently built an internal issue management tool for the support team.
- Built an FMS showcased at the 2019 Munich transport logistics trade fair — designed domain-driven process flows, Material Design UI/UX, and implemented an Angular + NestJS prototype that garnered strong interest at the exhibition
 - Independently developed a dedicated issue tracking system for the support team — delivered real-time issue visibility, automated report generation via NestMailer + Mustache templates, and significantly reduced manual reporting workload

Angular Angular Material NestJS Material Design UI/UX

2016.10 — 2019.01
2 yr 3 mo
Hamburg, Germany

Freight Forwarding Operator
CJ Logistics

- In the ocean freight division, led inland transportation optimization, ERP enhancement, and Excel VBA-based process automation — demonstrating both deep logistics domain expertise and hands-on technical capability.
- Selected as Top Performer of the Year in the company-wide annual review for 2017
 - Reduced trucking costs by approximately 15% through an improved logistics vendor sourcing strategy
 - Independently developed an Excel VBA-based Freight Management System, saving approximately €40,000 per year in labor costs
 - Visualized inland transportation cost data with Tableau, reducing RFQ response time by approximately 70%
 - Automated SAP S/4HANA invoice issuance with email integration, cutting invoice dispatch time by approximately 80%
 - Developed a 3D cargo volume calculator, established a cloud document-sharing framework, and reduced inter-departmental communication overhead by approximately 50%

Excel VBA SAP S/4HANA Tableau

EDUCATION

2009 — 2016

Korea Aerospace University · Logistics (Bachelor's)

- Logistics ERP Software Development Project — designed DB schema and built RDBMS; awarded Best Project Prize
- Key coursework: Supply Chain Strategy, Operations Research, Statistics, Programming, Transportation Systems, Facility Planning & Warehouse Management, Customs Logistics

LANGUAGES

Korean · Native English · Professional working proficiency German · Intermediate Japanese · Elementary