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SUMMARY

Full-stack Software Engineer (TypeScript/Node.js, React/Next.js) with 4+ years' experience in fintech, edtech and production LLM systems.

WORK EXPERIENCE

Redbrick Inc

Seoul, South Korea

Core Software Engineer – AI Applications/LLM

Oct 2024 – Present

Tech: TypeScript, Three.js, Node.js, React/Next.js, LLMs,, LangChain, LangSmith, Google Cloud

- Led development of an "AI-to-app" platform (5 engineers) that generated playable game prototypes in <5 minutes, by designing an LLM tool-calling workflow (function schemas, validation, retries) and a template-based scaffolding service for project creation.
- Reduced median task completion time 35% by shipping RAG + multimodal agents and improving retrieval (indexing, reranking) and tool-calling reliability (schema constraints, prompt iterations), validated via offline evals and LangSmith monitoring..
- Cut NPC dialogue/quest authoring effort by 40% by architecting a template-driven generation pipeline that produced structured quest graphs and dialogue from prompts, enforced by runtime constraints/validators before deployment.
- Built a 3D educational content pipeline using Redbrick's Block Coding system, integrating with LMS APIs for deployment and enabling the first enterprise 3D content sale (Daekyo), directly expanding platform revenue.
- Cut cross-product integration time by 30% by building a configurable ranking module, standardizing configuration, theming, and deployment hooks across 3 product lines.

KROSS Finance Korea

Seoul, South Korea

Software Developer

Oct 2022 – Sep 2024

Tech: TypeScript, Node.js, NestJS, React/Next.js, PostgreSQL, Redis, Docker, AWS (EC2, S3)

- Built a cross-platform financial ecosystem (investor, borrower, admin portals; 14-person multinational team, 10K+ users) that doubled daily active users within one year, measured via internal analytics dashboards.
- Increased API uptime from 97.2% to 99.6% by implementing a Node.js gateway with sane timeouts/retries, rate limiting, circuit breaking, and TLS termination to isolate failures across 5+ internal microservices.
- Reduced loan approval time from ~3 days to <24 hours and cut manual reviews 50% by integrating third-party KYC providers into a rule-based decision engine with reviewer overrides and audit logs for exceptions.
- Eliminated stuck-loan states by implementing SSE status streaming and idempotent backend state transitions, reducing client polling and improving stability during peak traffic.

Next-generation Networks and Systems Lab

Ulsan, South Korea

Network Systems Intern

Sep 2020 – Feb 2021

Tech: C++, Infiniband, Mellanox BlueField SmartNICs, Network Switches

- Improved packet-processing throughput 12% by implementing custom pipelines on Mellanox BlueField SmartNICs, benchmarking latency/throughput trade-offs across 4 workload configurations in a 16-node HPC cluster.

OnSquare

Seoul, South Korea

Software Developer Intern

Jun 2020 – Aug 2020

Tech: JavaScript, Redom.js, D3.js, Three.js, WebAssembly

- Refactored and modularized the front-end navigation architecture using Redom.js, D3.js, Three.js, and WebAssembly, reducing bundle size by about 20% and improving page load performance.

SKILLS

Languages: TypeScript, JavaScript, Python, C++

Frontend: React, React-Native, Next.js, D3.js, Three.js

Backend: Node.js, NestJS, Express.js, REST APIs, WebSockets, SSE

Data & AI/ML: PostgreSQL, MongoDB, Redis, Prisma, TypeORM, LLMs, RAG, LangChain, LangSmith (eval/monitoring), LLMs

Infra & DevOps: Docker, AWS EC2/S3, Google Cloud Storage, BigQuery, Firestore, Vertex AI, CI/CD (GitHub Actions)

EDUCATION

Ulsan National Institute of Science and Technology (UNIST)

Sep 2017 – Aug 2022

B.S. in Computer Science and Engineering; Minor in Finance and Accounting