

Chanwoo Noh

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Software Engineer

Summary

Backend engineer with 8 years of experience designing scalable distributed systems, from game servers supporting millions of players to AI platforms integrating real-time LLM streaming.

Experience

Software Engineer : Global AI Platform Corporation : Mar 2024 - Present

Building backend systems for "Aster," a global personal AI agent showcased at CES 2025 and MWC25.

- Architected scalable Go-based gRPC microservices to handle high-throughput user requests across distributed systems
- Integrated LLM agents with real-time streaming capabilities to deliver context-aware and adaptive user interactions
- Built infrastructure automation with Pulumi, AWS, Kubernetes and Helm for zero-downtime deployments
- Conducted load testing and performance optimization, reducing response times and improving system reliability
- Developed the MCP (Model Context Protocol) ecosystem, including reference servers and a registry system, enabling AI agents to dynamically integrate with external tools and data sources

Server Software Engineer → Lead Server Software Engineer

Devsisters (Studio Kingdom) : Dec 2018 - Jan 2024

Developed "Brixity," a global 3D sandbox city-building game that reached #1 on both Apple App Store and Google Play Store charts within a day of launch, surpassing 1 million downloads shortly after.

- Spearheaded development of a scalable backend handling over 12 million requests per hour for a global player base
- Owned the entire lifecycle of the game server—from initial development and launch to live operations and incident response
- Designed and maintained the multiplayer system, including dynamic play map and room management features, ensuring smooth real-time collaboration
- Increased server throughput by over 50% through performance tuning and load testing; led migration from amd64 to arm64 architecture with infrastructure team, significantly improving

performance and cost efficiency

- Developed internal service tools, including a web-based 3D viewer that renders user-generated building blueprints in the browser, supporting better moderation and service management
- Built productivity-enhancing tools using GitHub Actions, Slack bots, and custom utilities, streamlining workflows for in-game testing, data replication, and content extraction

Software Engineer : Anyfi Inc. : Nov 2016 - Jun 2018

Worked on multiple innovative networking projects at Anyfi, a company specializing in mobile mesh networking technology.

Project 1: Anyfi Mesh Network Platform

- Conducted R&D on Wi-Fi Direct multi-hop networking, implementing IPv4/IPv6 hybrid connectivity for collision avoidance and reliable data transmission
- Designed and implemented mobile mesh networking features including information propagation, graph synchronization, packet design, relay, and encryption to ensure smooth communication
- Developed and launched a reference application demonstrating the Anyfi technology
- Designed and built a C++ native cross-platform library for multi-platform support
- Researched Local VPN implementation on iOS to explore technical feasibility
- Contributed to establishing an engineering culture with Agile processes, coding conventions, code reviews, and TDD practices

Project 2: Wi-Fi Captive Portal System

- Led the design and development of a Wi-Fi captive portal system that collected client connection data and enabled targeted web push advertisements
- Built the full stack, from router firmware packages to backend server development
- Implemented multi-router group management and remote captive portal authentication servers
- Developed push notification delivery systems (web and Android) and an administrative dashboard

Education

Bachelor of Engineering in Computer Science & Engineering : Mar 2010 - Aug 2017

Seoul National University of Science and Engineering : Seoul, South Korea

Skills

Programming Languages: Go, TypeScript/JavaScript, Python, C#, Java, C++

Backend & Infrastructure: Node.js, .NET, gRPC, Kubernetes, AWS, Terraform, Apache Kafka

Databases: CockroachDB, PostgreSQL, Redis

Awards and Honors

Best of 2023 Game, Made with Unity Korea Award : 2023 : Brixity

Best Strategy Game, Pocket Gamer Awards : 2023 : Brixity

Projects

Open Source Contributions

LangDiff TypeScript Implementation - Implemented TypeScript version of language-based difference analysis tool, increasing accessibility for frontend developers and contributing to broader adoption

- [GitHub PR #10](https://github.com/globalaiplatform/langdiff/pull/10) (<https://github.com/globalaiplatform/langdiff/pull/10>).

OpenInference AI Observability - Enhanced OpenTelemetry-based AI observability library with SessionMessage support and MCP Streamable HTTP transport instrumentation for LLM applications

- [GitHub PR #1640](https://github.com/Arize-ai/openinference/pull/1640) (<https://github.com/Arize-ai/openinference/pull/1640>).
- [GitHub PR #1634](https://github.com/Arize-ai/openinference/pull/1634) (<https://github.com/Arize-ai/openinference/pull/1634>).

Side Projects

Child Meal Card Store Map - Interactive map service displaying nationwide child meal card affiliated stores using public data, helping families locate nearby stores

- Built with TypeScript, React.js, Mapbox
- [Live Site](https://dream-tree.rajephon.dev/) (<https://dream-tree.rajephon.dev/>).

Duzon Payslip Web Viewer - Browser-based tool for payslip decryption and viewing, eliminating the need for separate software installation

- Developed with TypeScript, React.js
- [Live Site](https://pay.rajephon.dev/) (<https://pay.rajephon.dev/>).