

Taishi Hasegawa *Senior Software Engineer*

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SUMMARY

I am a software engineer with over 10 years of experience designing and successfully building scalable web applications, AI powered products, and enterprise grade software solutions. Leveraging expertise in React, Next.js, TypeScript, and modern frontend architectures, I have hands on experience integrating LLMs, RAG systems, and intelligent automation technologies notably leading a project that reduced operational costs. I also possess experience in designing distributed systems and blockchain infrastructure, a key achievement includes building a private Hyperledger Fabric network that reduced security risks. I focus on transforming complex requirements into measurable, tangible results and lead projects through their entire lifecycle, from architectural design to deployment.

SKILLS

AI / LLM: OpenAI API, Anthropic Claude, function calling, tool use, structured outputs, prompt engineering, RAG, embeddings, semantic search, AI agents, AI workflow automation, LLM evaluation, smolagents, LlamaIndex, LangGraph, Langfuse, AutoGen, CrewAI, OpenAI Agents SDK, Google ADK (Agent Development Kit), Model Context Protocol (MCP), vLLM, Ollama, Hugging Face Transformers, Hugging Face Inference, TensorRT-LLM, TGI (Text Generation Inference)

Backend: Node.js, Python (FastAPI), TypeScript, REST APIs, GraphQL, multi-tenant SaaS, system design, business logic orchestration, Redis, gRPC, WebSockets, OAuth2, JWT, OpenTelemetry

Frontend: React, Next.js, NestJS, Rust, React Native, PostgreSQL, Supabase, Drizzle, Neon, schema design, embedding-based retrieval

Databases: PostgreSQL, MySQL, MongoDB, Pinecone, Redis, Elasticsearch, pgvector

Cloud & DevOps: AWS, Docker, CI/CD (GitHub Actions), Serverless Architectures, Micro services, Vercel, Fly.io, GCP, Qstash, Grafana, event driven architecture, production debugging, AI assisted dev workflows (coding agents, PR automation), Azure, Kubernetes (very important), EKS, Cloud Run, Cloud Functions, Lambda

Leadership: Technical leadership of small teams (2–6 engineers), delivery ownership, code review standards, engineering process design

EXPERIENCE

Senior Software Engineer, AI Engineer - Nekologic (Apr 2023 - May 2026)

Kyoto, Japan (PM)

- Architected and shipped an AI scheduling assistant that automated manual clinic scheduling, combining LLM based intent extraction with complex deterministic constraints, deployed across multiple healthcare organizations.
- Built and deployed a production grade RAG system document ingestion, semantic search, and answer grounding for enterprise healthcare data.
- Accelerated delivery by integrating AI coding agents and LLM based PR automation into the CI pipeline.
- Led a team of 4 engineers and owned the technical roadmap and engineering standards from initial pilot to multi organization deployment.

Senior Software Engineer - OBIC Co, Ltd (Jan 2020 - Mar 2023)

Tokyo, Japan (remote)

- Cut first-page load times 85% (1.4s → 0.2s), directly improving user retention and conversion.
- Shipped 5 high-impact projects to production while managing 3 cross-functional remote teams across global time zones.
- Promoted 5 engineers from Junior to Senior by mentoring them and establishing a high-performance engineering culture.

Backend Developer - Lychee G.K. (Mar 2016 - Jul 2020)

Tokyo, Japan

- Developed a real estate platform serving 3,600 users with dynamic search and responsive UI
- Improved web performance by 75% through frontend optimization and efficient architecture design
- Built responsive web applications using React, modern JavaScript frameworks, and component based architecture

EDUCATION

M.S in Computer Science & Engineering

Nagoya University (Apr 2012 - Oct 2016)

- Bachelor of Computer Science