

Sihyeong Lee

AI-Native Developer Experience / Product Engineer | Coding Agents | MCP | TypeScript / Python | CI / Quality Systems

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US permanent resident, authorized to work without sponsorship. **Los Angeles based | Remote-US; open to LA hybrid work and U.S. domestic travel.**

Available immediately | Full-time

Summary

Engineer and former CTO with ten years of software delivery experience, focused now on **developer productivity, coding-agent workflows, and the systems that make AI-assisted engineering inspectable and safe to operate**. I build with Claude Code, Codex, MCP, CI, Playwright, and evaluation harnesses, but I treat the agent as an implementation engine rather than the owner of the result: architecture, code review, testing, debugging, release gates, and production outcomes remain my responsibility. I am strongest where tooling, product, infrastructure, and developer workflow meet.

Experience

Founder & Software Engineer, Sourcea LLC | Los Angeles

Nov 2025 - Present | Los Angeles / Remote

Solo consultancy and product lab for AI integration, developer tooling, and full-stack systems.

- Build **MCP servers and agent workflows** that connect LLMs to production-like systems through typed tools, structured outputs, machine gates, and explicit human-approval boundaries.
- Run parallel Claude Code and Codex implementation through isolated git worktrees while owning architecture, diff review, test strategy, failure analysis, and release decisions.
- Build evaluation and observability around LLM features: retrieval benchmarks, deterministic validation, LLM-judge safety evals, and model A/B tests.
- Operate the infrastructure behind the tooling: PostgreSQL/pgvector, Docker, self-hosted GPU services, cloud VMs, Tailscale, Caddy, and Cloudflare.

Chief Technology Officer, Bitnara Inc. (ITEMBOX) | AI-assisted e-commerce platform

Jun 2024 - Oct 2025 | Remote

Led a **nine-person distributed engineering team across Korea and Vietnam** while remaining the platform's most active contributor.

- Owned a **20-module NestJS/TypeORM backend with roughly 300 REST endpoints** and a Next.js frontend across tenancy, permissions, seller onboarding, order workflows, proxy purchasing/quoting, and exchange-rate services.
- Replaced manual seller onboarding with **Shopify OAuth 2.0** and Cafe24 integrations, including HMAC validation, token handling, webhook registration, and multi-currency support.
- Shipped Stripe subscription billing and integrated AI/image/OCR services through FastAPI, Redis/Celery, PostgreSQL, MongoDB, OpenAI, Anthropic, ComfyUI, ModelsLab, and Kling.
- Set engineering direction across a distributed team while also contributing directly to frontend/backend implementation and production operations.

Chief Technology Officer, GEOMEC Inc.

Feb 2021 - May 2024 | Remote from the U.S. from 2023

Sole engineer for internal software and infrastructure: Electron desktop software, automated release/update/logging, NAS/RBAC, Proxmox VE, VM provisioning, Linux servers, VPN, firewall/SSH standards, centralized logging, and backups.

Quality Assurance, Case Farms Processing, Inc. | Morganton, NC

Mar 2023 - Mar 2024 | On-site

Worked in a U.S. production environment and moved from the production line into quality assurance after five months while continuing GEOMEC responsibilities remotely outside plant hours.

Selected Projects

DevDeck | local-first command center for coding agents (*open source*)

TypeScript | Electron | React | Node.js | Vitest | Playwright | axe-core

A developer-workflow product for Claude Code, Codex, and Antigravity: repository/session state, persistent embedded terminals, provider-aware resume/open flows, local usage analytics, project memory, cross-project tasks, and mutually authenticated machine-to-machine session control. Public CI reports **1,257 passing tests** and exercises Windows/macOS/Linux builds, multilingual journeys, accessibility, and failure/recovery behavior.

studios | shared-kernel MCP platform

Python | MCP | FastAPI | React | SQLite | ComfyUI | CUDA

Common kernel for multiple generation services with GPU arbitration, asset storage, thumbnailing, and reusable MCP server scaffolding. Machine validation and persisted semantic verification keep agent-generated assets reviewable after the producing session ends.

Creator OS | evidence-first analytics SaaS

TypeScript | Next.js | SQLite/PostgreSQL | Playwright

Production-minded SaaS work with tenant isolation, explicit fail-closed release gates, SQLite/PostgreSQL parity, and browser QA on desktop/mobile. Test infrastructure is deliberately isolated from operating databases and records known limitations instead of relabeling incomplete checks as release approval.

Technical Skills

Developer Experience / AI: Claude Code, Codex, Model Context Protocol (MCP), agent orchestration, tool calling, git worktrees, GitHub Actions, Playwright, Vitest, pytest, evaluation harnesses, accessibility QA, release gates

Frontend: TypeScript, React, Next.js, Electron, React Native, Three.js, Tailwind CSS

Backend / Data: Node.js, NestJS, Python, FastAPI, PostgreSQL, MongoDB, Prisma, TypeORM, Redis, Celery, SQLite, PostGIS

Infra / Delivery: Docker, AWS, Proxmox VE, Tailscale, Caddy, Cloudflare, Vercel, PowerShell, CI/CD, self-hosted GPU services

Education & Languages

Hanyang Cyber University, B.S. in Computer Software Engineering, 2017-2019 | **Korea National Institute for Lifelong Education**, Associate degree in Computer Engineering, 2013-2016

Korean (native) | English (professional working)