

Hongjun An

Seoul, South Korea – returning to Blacksburg, VA (Aug 2027)
hongjunan.dev

EDUCATION

Virginia Tech – B.S. in Computer Science (on leave; returning Aug 2027) Blacksburg, VA
Expected 2028

EXPERIENCE

Independent Software Engineer (Contract) – Self-employed, Seoul, South Korea Jan 2025 – Present

- Built 30 web and app projects end to end as a solo developer – client contracts and my own products, from planning and data design to deployment and handover.
- Directed AI coding agents (Claude Code) to write and deploy code to my specs, with verification harnesses that catch AI defects before deploy: negative controls for every new assertion, live anonymous-access RLS denial tests, post-deploy bundle-hash checks – one audit rebuilt 7 always-passing checks and exposed 6 hidden defects.
- Built concurrency-safe bidding and prize draws with advisory locks: 110 PASS / 0 FAIL bid-RPC checks across 20 concurrency waves; 0 over-stock and 0 double awards in a 200-request test; 961 real event participants.
- Designed Supabase back ends with row-level security – up to 74 tables, 242 functions and 270+ migrations, each migration dry-run in 4–11 scenarios inside BEGIN...ROLLBACK on production.
- Cut cost per free AI event to about a third (₩185 to about ₩60) with prompt caching and a lighter model; cut matching response time from 2,068 ms to 1,033 ms; a root-layout fix ended about 600,000 uncached REST calls a day.

SELECTED PROJECTS

mai-eventic – Technology partner – all development solo hongjunan.dev/work/mai-eventic
AI event builder (SaaS, in beta) for brand marketers without developers – roulette, scratch-card, quiz and stamp events, shared through KakaoTalk.

- 25+ verification scripts, 1,700+ assertions
- Cost per free event ₩185 to about ₩60 (prompt caching + a lighter model)

Stack: Next.js · TypeScript · Supabase · Anthropic API · Vercel

Escrow marketplace app for trading cards (NDA) – Solo – from planning to App Store submission
hongjunan.dev/work/card-escrow-app
C2C marketplace for trading- and sports-card collectors – listing, auctions, chat, escrow payments and seller payouts; web and iOS from one codebase.

- 74 tables · 99 foreign keys · 34 triggers · 242 functions · 8 views
- 119 Deno tests gate every commit (30 money-path signatures)

Stack: React Native · Expo SDK 54 · TypeScript · Supabase · Edge Functions

SEALKITT – Owner & sole developer hongjunan.dev/work/sealkitt
Trading-card price hub for Korea, the US and Japan – my own product, which I run.

- 80,591 cards (Pokémon 62,097 · Yu-Gi-Oh! 14,472 · One Piece 4,022)
- 77,068 source images + 231,204 derivatives · 98.5% coverage

Stack: Next.js · TypeScript · Supabase · Vercel · Resend

SKILLS

Languages	TypeScript · JavaScript · SQL (PostgreSQL)
Frameworks	Next.js · React · React Native · Expo · Tailwind CSS · Vite
Data & Infra	Supabase (row-level security · Edge Functions · Realtime · pg_cron) · Vercel · Sentry · Resend
AI tooling	Claude Code (AI coding agents) · Anthropic API (prompt caching) · parallel research and audit agents
Testing	Playwright · Deno tests · Lighthouse · negative controls · RLS denial tests

LANGUAGES

Korean (native), English (fluent)