

# ISHAN SHARMA

Full-Stack Software Engineer

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## SUMMARY

Full-stack engineer who designs, ships, and operates production systems end to end. Built a multi-tenant SaaS platform solo, from data pipelines and REST APIs through auth, billing, caching, and observability, and ran it on live client sites. Earlier shipped consumer features to 500K+ users at Amazon. Core stack: TypeScript, Python, Next.js, React, FastAPI, PostgreSQL, AWS. Daily AI-augmented workflow (Claude Code, Cursor), with the judgment to review what ships.

## EXPERIENCE

### Founder & Lead Engineer, Bloort

2025 – Present

*Multi-tenant SaaS platform (RAG chatbots and automation agents), built solo from zero to production, later with two part-time engineers.*

- Designed and shipped a multi-tenant platform on live client sites: per-tenant data isolation via namespaced vector stores, and automated onboarding that cut client setup from multi-day to ~5 minutes by scraping and auto-branding from each client's site
- Built the ingestion and retrieval pipeline (scraping, chunking, embedding) and an integration layer with typed tool calls (MCP), outbound voice (VAPI), and WhatsApp (Twilio) actions
- Engineered for production reliability: a semantic response cache (0.88 cosine threshold) that cut API cost and latency, retry with backoff, timeout races, and dry-run gating on irreversible operations
- Implemented layered input security: prompt-injection filtering (model-based with a regex fallback), SSRF protection, and email and phone PII redaction
- Wrote a regression test harness scoring retrieval on versioned golden datasets (hit-rate, MRR, recall@k) that rejected a hybrid retriever underperforming dense search, plus trajectory tests that caught a fabricated tool argument before customers saw it

**Highlights:** *TypeScript, Next.js, Node, FastAPI, PostgreSQL, Firebase, Pinecone, MCP, VAPI, Twilio, Railway, multi-tenancy, caching, regression testing*

### Full-Stack Engineer, Moonvalley (VC-backed)

2024

*Generative video. A startup building its own proprietary AI video model.*

- Built a generative-AI canvas application with real-time image generation and editing; cut time-to-market roughly 30% with a modular backend

**Highlights:** *Vue.js, FastAPI, Python, Stable Diffusion, Replicate, Docker, AWS*

### Software Development Engineer, Amazon.com, Inc.

2022 – 2023

*Consumer hardware. Amazon Kids+, an all-in-one service for kid-friendly content on Kindle e-readers.*

- Shipped landing-page and authentication features for Amazon Kids+ on Kindle to 500K+ global users (React Native, TypeScript, C++), contributing to a ~20% revenue increase
- Drove a ~15% increase in successful sign-ins by integrating accessibility-compliant enhancements into the Kindle Kids+ authentication flow, and led A/B testing that improved user retention ~10%
- Improved software reliability ~25% with robust testing frameworks and reduced UX issue latency ~10% via AWS CloudWatch and SQS monitoring

**Highlights:** *React Native, TypeScript, C++, Java, AWS, CloudWatch, SNS, SQS, Jest, TDD, Agile, Jira*

## PROJECTS

### HANDSCENES

[handscenes.vercel.app](https://handscenes.vercel.app)

*Real-time hand- and body-tracked apps, running fully in the browser.*

- Built Sign School, a Duolingo-style ASL fingerspelling trainer that reads your handshape live from MediaPipe hand landmarks, plus hand- and body-tracked scenes; all deps vendored behind a strict CSP (three.js, WebGL2, GLSL, p5)

## SKILLS

**Full-stack:** TypeScript, Python, Next.js, React, Node, FastAPI, PostgreSQL, Firebase

**Infra & delivery:** AWS, Vercel, Railway, Docker, CI/CD, observability

**Applied AI:** RAG pipelines, retrieval evaluation, vector databases, LangChain, OpenAI APIs, Pinecone

## EDUCATION

University of Toronto, Computer Science (B.Sc., Honours)

2017 – 2022