Shobhnik

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Summary

Product engineer, full-stack leaning **backend, AI and infra**, with **3 years** owning **0→1 products** end-to-end at YC and early-stage startups, from architecture to launch, mostly in lean teams or as the solo engineer.

Education

Maharaja Agrasen Institute of Technology, B.Tech in IT (8.9 CGPA)

Experience

Software Engineer(Backend/AI), Xane AI – Gurugram, India — Jan 2026 – Present

- Built an **AI agent on Mastra** that acts as an assistant for automobiles and appliances, handling everything from **information retrieval** to **service booking** and **warranty claims**.
- Developed full **traceability, logging, and explainability** for the agent, using **evals** to track its performance and drive continuous improvement.
- Designed **Terraform templates** and **infrastructure as code (IaC)** for **multi-tenant enterprise deployments** on **AWS**, using **EC2, load balancers, S3, VPC, API Gateway and Bedrock**.
- Built a **document OCR pipeline** ingesting **100k+ pages** via **MinerU VLM**, powering **RAG over Qdrant** with **RRF hybrid retrieval and reranking**, combining **sparse (BGE-M3)** and **dense (OpenAI text-embedding-3-small)** embeddings.
- Extended and maintained **legacy microservices** of the core product serving **3.1M+ users**, designing **schemas, APIs and architecture** for new services and building new APIs in **Node.js/TypeScript**.

Product Engineer, Roger (YC S24) – Remote — May 2026 – June 2026

- Built an **AI agent** that takes a brand's website URL, scrapes its site and online presence, and learns the brand's identity, tone, and visual style to generate on-brand posts, creatives, and **UGC-style ads**.
- Architected the system and built the **URL-to-live-ad** loop end-to-end using **GPT Image 2**, **Seedance 2** live-avatar video, and **Meta Ads APIs**, with **tool orchestration**, context and memory management, and **job queueing and retries**.

Software Engineer, Otomashen (E-solutions) – Noida, India — Feb 2025 – Jan 2026

- Built and scaled a high-throughput **EDI/X12 processing engine** handling **20k+ claim files** and millions of encrypted denial records, driving a **166% revenue increase**.
- Optimized **Node.js/TypeScript** backend services reducing API latency from **10s to <1s**
- Engineered a **real-time dispatch system** for proximity-based doctor matching, request lifecycle (accept/decline), and instant notifications.
- Delivered **4 production-grade client systems**, leading one end-to-end as the **Lead Developer**, owning architecture, implementation, and deployment.

Founding Product Engineer, Stealth Startup (YC-backed) – Remote — Aug 2024 – Jan 2025

- Owned the product end-to-end as the **founding product engineer**, including **system architecture, database schema, frontend, backend APIs, and deployment**.
- Built an **AI work-management platform** on **LangGraph, Gemini, Node.js, BullMQ, Redis, and PostgreSQL**, handling **100k–200k requests per month**.

Projects

ReachToYC Github | Live

- **AI agent** that takes a **YC batch**, finds every company's founders via **Apify**, researches each company and writes a personalised cold email per company with **Claude, OpenAI or Gemini**.

FindMeJob Live

- **Go and Wails** desktop app with **100k+ jobs** scraped from Wellfound, Greenhouse and more, plus local agents (**Claude Code, Codex, OpenCode**) for outreach.

Technical Skills

Languages & Runtime: JavaScript, TypeScript, Python, Golang(Go), Bun, Node.js

Frameworks: Next.js, NestJS, React.js, Express.js, Langchain, Deep agents, Mastra

DevOps/Infra: AWS, GCP, Cloudflare, Kubernetes (K8s), Docker, Git, Github Actions, Mixpanel

Databases: PostgreSQL, MySQL, Redis, MongoDB, Vector db(Qdrant, Pinecone), ClickHouse

AI/Agentic: Claude Code, Codex, MCP, Personalised skill files, Hermes, OpenClaw