Shobhnik

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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**.

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.

Projects

ReachToYC Github | Live

- **AI agent** that takes a **YC batch**, finds every company's founders and likely emails via **Apify**, researches each company on the web and writes one personalised cold email per company with **Claude, OpenAI or Gemini**.
- Built on **Express, Drizzle ORM and Postgres/PGlite** with a **Next.js** frontend; drafts send from your own Gmail as a paced **background job** with daily limits. Runs locally, open source.

FindMeJob Live

- Desktop app in **Go and Wails** aggregating **100k+ jobs** by **scraping Wellfound, Greenhouse** and other boards with **no public APIs**, filterable by seniority, skills and experience.
- Connects your local agents (**Claude Code, Codex, OpenCode**) to research companies, find founders and write outreach emails in one app.

Jev-check Github | Live

- Experimenting with **Jev's new image model** to check a photo has everything a **visual checklist** needs.

Amigmi Github | Live

- Open-source **CLI** parsing **Claude Code, Codex, and OpenCode** logs to rank developers by AI token usage.

Whooper Github | Live

- Open-source **API caching proxy** that caches backend responses and auto-invalidates them via user-defined rules.

InsightPlus Github | Live

- Self-hostable analytics engine on **NestJS, Redis Streams, and ClickHouse**, ingesting **10k+ events/sec**.

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