MOKSH BHAYRE

Computer Science Engineering Student | Backend & Full-Stack Developer
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SUMMARY

Computer science undergraduate and backend-leaning full-stack developer building open-source developer tools and production systems — backend services, CLIs, dashboards, and data pipelines. Co-founder at Xvertere.

EDUCATION

B.Tech, Computer Science & Engineering — IES IPS Academy, Indore
2025 – 2029 (Expected)

EXPERIENCE

Co-Founder — Xvertere
linkedin.com/company/xvertere

PROJECTS

Solarch *(Ongoing)*

- Open-source, TypeScript-native Backend-as-a-Service (BaaS) bundling SQLite, Express, WebSocket, authentication, file storage, and an admin UI into a single npm package.
- Designed and built the Admin UI.

github.com/xvertere-org/Solarch

Solarch.in — Documentation Website *(Ongoing)*

- Documentation website for Solarch.
- Built and maintain the site using React, Vite, TypeScript, and WebGL.

solarch.in

Orion CLI *(Under Development)*

- Open-source, AI-powered developer tool that turns natural-language ideas into production-ready software through intelligent planning, code generation, and agentic orchestration.
- Built the TUI (Terminal UI) using Go and Bubble Tea.

Oriondev.in — Documentation Website *(Ongoing)*

- Documentation website for Orion CLI.
- Built and maintain the site using TypeScript and CSS.

oriondev.in

GIS Dashboard *(Client Project)*

- Production-oriented GIS dashboard for geospatial data and carbon/MRV-related calculations.
- Owned development, debugging, and validation, ensuring production-readiness and calculation accuracy.
- Stack: Python, FastAPI, Tauri, Next.js.

Aadhaar Netra

- Deterministic, privacy-preserving data pipeline that identifies and prioritizes districts for biometric-update camps.
- Uses auditable "staleness" and population-impact metrics to route limited resources to districts that need them most.
- Owned data processing and feature engineering.

github.com/xvertere-org/Aadhaar-Netra

CNC Machine *(Functional / Built)*

- Designed and built a fully functional CNC machine, including mechanical systems, electronics, motors, and control logic.

TECHNICAL SKILLS

Languages: Python (Intermediate), C++, JavaScript/TypeScript, Go
AI / ML: Prompt Engineering, Context Engineering
Backend: FastAPI, REST API Development, Backend Architecture, Database/API Integrations
Frontend: Next.js, React, TypeScript
Databases: PostgreSQL, SQLite, MongoDB, Vector Databases (working knowledge)
DevOps / Cloud: Git, GitHub, Docker
Data Analytics: Power BI, Tableau
Other: Figma / UI-UX, Tauri, Electron, Desktop App Development, CLI Development, APIs

ACHIEVEMENTS

- 3rd Prize — VyapaarX 3.0, organized by E-Cell, IES IPS Academy.