

Onkareshwar Sharma

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EDUCATION

- International Institute of Information Technology (IIIT) Naya Raipur** Naya Raipur, India
B.Tech in Computer Science & Engineering (CGPA: 7.84) July 2024 – May 2028

OPEN SOURCE

- RunAnywhere AI** | *Swift, C/C++, C ABI, Unit Testing (Remote)* Oct 2026
 - Fixed **Swift-to-C++ logging synchronization** by wiring **setLogLevel()** and **configureLogging()** through the C ABI and implementing type-safe enum mappings for native and MLX log-level propagation.
- GrowthBook** | *TypeScript, Node.js, REST API, React (Remote)* Aug 2026
 - PR #1:** Engineered and merged a public **REST API** endpoint (`POST /experiments/:id/comment`) enabling programmatic comment posting, reusing internal backend logic to ensure consistent permission checks, data models, and validation.
 - PR #2:** Resolved a client-side **pagination bug** within the Saved Groups interface by synchronizing search filters with **pagination state**, restoring accurate data retrieval and search functionality across multi-page datasets.
- Onyx** | *Python, GitLab API, Backend Development (Remote)* Jul 2026
 - Implemented **branch-specific syncing** for Onyx's GitLab connector, enabling code retrieval from configurable branches instead of only the repository's default branch.
 - Updated **file listing and content-fetch API calls** to support branch selection, with robust error handling for invalid branches and GitLab API failures.
 - Added and validated **regression tests** covering branch overrides, default-branch fallback, and invalid branches while preserving **backward compatibility**.
- Tenstorrent tt-metal** | *C/C++, Kernel Programming, System Software (Remote)* Jun 2026
 - Merged contribution modernizing **kernel-level C/C++** type declarations across Quasar and Wormhole components; collaborated with maintainers through issue discussions and code review.

EXPERIENCE

- Backend Developer Intern** Oct 2026 – Present
BigBrick Technologies Private Limited Remote
 - Engineered **TenderHub**, a government procurement intelligence platform using **Node.js, Express.js, and MongoDB**; designed REST APIs and 4 core data models for tender discovery, contractor profiles, AI dossiers, and persistent Copilot sessions.
 - Automated daily tender ingestion across **2 government procurement portals** using **Playwright/Puppeteer** and PDF parsing to extract bid metadata and technical specifications; integrated **Cloudflare R2** and **Redis** for document storage, caching, and rate limiting.
 - Built a **3-stage AI analysis pipeline** using **Gemini, GPT-4o mini fallback, and deterministic rules**, supporting **5 tender domains** to generate BOQ estimates, compliance checks, and contractor eligibility assessments within a **60-second analysis window**.

PROJECTS

- CSC Sarthi – AI-Powered Pre-Submission Assistant** | *Python, Django, Scikit-learn, OCR, Render* [\[Live\]](#) | [\[GitHub\]](#)
 - Built an **AI-powered validation platform** for **30+ government services**, combining real-time form validation with a Scikit-learn rejection-risk model achieving **~87% accuracy** and field-level explainability.
 - Developed an **OCR-based verification pipeline** to extract Name, ID, and DOB from documents, detecting **3+ mismatch types** through cross-validation against form inputs.
 - Implemented a **WhatsApp pre-verification chatbot** and Django analytics dashboard tracking the **top 5 rejection causes** across **30+ districts**.
- Website Security Scanner API** | *Node.js, Vercel Serverless, REST API, DNS/TLS* [\[Live\]](#) | [\[GitHub\]](#)
 - Built a serverless **REST API** executing **10 parallel security checks** across HTTP headers, TLS/SSL, SPF/DMARC, CORS, cookies, exposed credentials, and CMS fingerprinting, returning a scored **JSON risk report**.
 - Implemented **SSRF protection** against private IPs, localhost, and cloud metadata endpoints, alongside per-IP rate limiting and accurate failure reporting for unreachable targets.
 - Published the API on **RapidAPI**, reaching **264+ users** through tiered subscriptions, and built a public web demo enabling browser-based scans without an API key.

SKILLS

Languages: Python, C++, C, SQL, JavaScript, TypeScript

Backend & APIs: Django, Flask, Node.js, Express.js, REST APIs, SSE, JWT Authentication

Databases: PostgreSQL, MongoDB, MySQL, Redis

Frontend & Tools: React.js, HTML/CSS, Postman, Git/GitHub, Linux

Cloud, AI & Security: AWS, Render, Vercel, Cloudflare R2, Scikit-learn, OCR, SSRF Protection, Rate Limiting, DNS/TLS

ACHIEVEMENTS

- Winner, Hackathon** | E-Summit 2026, IIIT NR Mar 2026
- Winner, Case Study Competition** | Xcelarate 2026, IIIT NR Feb 2026