

Shashank

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SUMMARY

Full-Stack & AI Engineer focused on developer tools, scalable backend systems, and applied AI. IIT (BHU) research intern and PyPI open-source author with experience building production RAG pipelines, browser-deployed computer-vision models, and multi-tenant SaaS platforms serving 500+ concurrent users. Creator of quelltest, an AST-based testing CLI with 17K+ downloads, and builder of the AICHe 2026 SRC platform supporting 500+ users and 20K+ visitors.

EDUCATION

Rajiv Gandhi Institute of Petroleum Technology (RGIPT) Amethi, Uttar Pradesh
Bachelor of Technology in Information Technology CGPA: 8.70/10 (Till 4th Semester) 2024 – 2028

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Java, Kotlin, SQL, HTML, CSS
Frontend, Mobile & APIs: Next.js, React.js, Flutter, Tailwind CSS, FastAPI, Node.js, Express, REST, GraphQL, WebSockets
AI & Machine Learning: LangChain, RAG, NLP, Computer Vision, Vector Search, AWS Bedrock, PyTorch, TensorFlow
Cloud & Databases: AWS Lambda, Docker, Kubernetes, MongoDB, PostgreSQL, DynamoDB, MySQL, Redis
Developer Tools: GitHub Actions, CI/CD, PyPI Packaging, AST, libcost, ONNX, WebGPU/WASM, Playwright, OAuth 2.0 / PKCE, MCP

EXPERIENCE

Research Intern — Deep Learning & Computer Vision May 2026 – Jul 2026
Indian Institute of Technology (BHU), Varanasi — VisAssist Hybrid
– Built and deployed a six-stage client-side assistive vision pipeline using WebGPU/WASM for restoration, captioning, depth and hazard detection, and speech output.
– Designed a 0.44M-parameter U-Net restorer on a frozen 61-image OCR benchmark; matched a 5.85M-parameter pretrained baseline (CER 0.462 vs. 0.455) with **13× fewer parameters and 12× smaller disk size**; exported and verified the model in ONNX.
Software Engineering Intern — Full Stack Dec 2025 – Present
Myschord Pvt. Ltd. — QuizerAI (quizerai.com) Remote
– Architected multi-tenant RBAC and subscription gating; deployed a LangChain/AWS Bedrock RAG pipeline on Lambda for 500+ concurrent users with 40% lower inference latency.
– Executed MySQL to DynamoDB migration improving API response time by 60%; containerized services via Docker reducing environment bugs by 90% across dev, staging, and production.
– Integrated OAuth 2.0 and JWT authentication; developed Recharts dashboards for real-time quiz analytics, subscription KPIs, and engagement tracking.

PROJECTS

quelltest — Python, AST, libcost, LangChain, Typer, pytest, PyPI | Live | GitHub
– Built an AST-driven Python testing CLI with **17,000+ downloads** that finds untested edge cases and validates generated tests through five quality gates.
– Shipped Production Readiness scoring, CI enforcement, cloud sync, a Next.js dashboard, and an OAuth PKCE MCP connector exposing eight tools.
AlertyAI — FastAPI, Flutter, Kotlin, Next.js, MongoDB, Redis, OCR | Live | GitHub | Play Store
– Built and published an AI productivity app on Google Play for **200+ users**, supporting voice/OCR task capture, natural-language scheduling, reminders, and team collaboration.
– Replaced API-dependent STT/OCR with in-house models and hardened the FastAPI/MongoDB/Redis backend with distributed locks, caching, and rate limiting.
AICHe 2026 SRC Website — React, Express, Node.js, MongoDB | Live
– Built and operated vplavsrc.com, serving **500+ users** and generating **20,000+ visits** for the AICHe 2026 Student Regional Conference.
– Delivered registration, submissions, administration, certificate generation/download, filtering, and exports using React, Express, and MongoDB.

ACHIEVEMENTS

- **Flipkart Grid 6.0 Semifinalist** — Advanced to the semifinal round of Flipkart's national-level tech competition.
- 2nd Runner Up — Exergy Technical Fest, IIT Kanpur | Top 8 Teams — Startup Pitch, Azeotropy, IIT Bombay
- IMO Level 2 Qualified — International Mathematics Olympiad | JEE Mains and Advanced Qualified

LEADERSHIP

Head — Code Club, Science & Technology Council (SnT), RGIPT 2026 – Present
Technical Chair — SRC 2026, AICHe RGIPT Student Chapter 2026
– Built and operated the SRC 2026 platform to support **500+ users and 20K+ visitors**, enabling reliable event access and participant workflows at scale.