

Shashank

☎ +91-89236-95717 | ✉ bindalshashank.89@gmail.com | 📄 shashankbindal07 | 🌐 shashankbindal | 🌐 shashankbindal.me

EDUCATION

Rajiv Gandhi Institute of Petroleum Technology (RGIPT) Amethi, Uttar Pradesh
Bachelor of Technology in Information Technology CGPA: 9.02/10 (Till 3rd Semester) 2024 – 2028

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C++, Java, Kotlin, SQL, HTML, CSS
Frontend & Mobile: Next.js, React.js, Flutter, Three.js, Tailwind CSS, Zustand, Recharts
Backend & APIs: FastAPI, Node.js, Express.js, REST APIs, GraphQL, JWT, OAuth 2.0, WebSockets
AI & Machine Learning: LangChain, RAG, NLP, Vector Search, Semantic Chunking, AWS Bedrock, Groq, Ollama, TensorFlow
Cloud, DevOps & OSS: AWS Lambda, DynamoDB, Docker, Kubernetes, GitHub Actions, CI/CD, PyPI Packaging, AST, libcst, uv
Databases: MongoDB, PostgreSQL, DynamoDB, MySQL, Redis, SQLite
Web, SEO & GEO: Schema.org JSON-LD, Next.js Metadata API, OpenGraph, llms.txt, Google Search Console, Figma

EXPERIENCE

Software Engineering Intern — Full Stack Dec 2025 – Present
Myschord Pvt. Ltd. — QuizerAI (quizerai.com) Remote

- Architected a multi-tenant Role-Based Access Control (RBAC) engine (Student, Teacher, Admin) with subscription gating (Free, Go, Pro), enforcing quota controls and assignment lifecycle management.
- Designed and deployed a Retrieval-Augmented Generation (RAG) pipeline using LangChain and AWS Bedrock with vector-indexed retrieval on serverless Lambda nodes, scaling to 500+ concurrent users at 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; built Recharts dashboards for real-time quiz analytics, subscription KPIs, and engagement tracking.

PROJECTS

quelltest — *Python, AST, libcst, LangChain, Typer, pytest, PyPI* | 🌐 | 🌐

- Built and shipped an open-source Python CLI on PyPI that reads production code via Abstract Syntax Tree (AST), detects untested guard clauses (boundary, null, enum, auth checks), and generates verified failing tests with no LLM API key required.
- Engineered a two-phase verification engine: tests must fail on current code (proves gap is real) and pass after fix (proves fix works); **11K+ total downloads, 6.2K last week** across 16 releases with zero paid distribution.
- Offline rule-based synthesis covering 8 constraint types; optional LLM fix suggestions via Anthropic, OpenAI, or Ollama; CI mode with threshold scoring and GitHub Pull Request analysis.

AlertyAI — *FastAPI, Flutter, Kotlin, Next.js, MongoDB, Sarvam AI STT/TTS, OCR* | 🌐 | 🌐 | ▶

- Engineered a cross-platform AI voice task scheduler with Flutter and Kotlin Android client and Next.js web frontend; sub-2-second voice-to-task conversion using Sarvam AI Speech-to-Text and Text-to-Speech.
- Designed NLP-based task decomposition and automated reminder engine reducing planning overhead by 50% and task creation friction by 60%.

IEEE RGIPT Chapter Platform — *Next.js, Three.js, Express.js, MongoDB, SendGrid, Canvas API* | 🌐 | 🌐

- Deployed official RGIPT IEEE chapter platform with event registration, admin CMS, Canvas API dynamic ID card generation, and SendGrid email pipeline; **90 confirmed registrations, 1,000+ total visitors.**

ACHIEVEMENTS

– 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 — Kode Club, Science & Technology Council (SnT), RGIPT | **Co-Head** — IEEE CS Society, Study Circle (RGIPT)