

BANNUSHA SHAIK

Software Engineer | Backend (Python/FastAPI) · DevOps/Platform · AI/ML & GenAI

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SUMMARY

Software Engineer (B.Tech AIML) with a Fortune 500 internship at SKF delivering production enterprise applications on Microsoft Power Platform. Builds backend systems end-to-end (API design, data modeling, caching, real-time features, deployment, and monitoring) in Python/FastAPI, Docker, CI/CD, Prometheus/Grafana, and LLM APIs; deployed projects sustain 1,000+ QPS at sub-10ms p95. Seeking Backend, Full-Stack, Platform, or GenAI Engineer roles.

PROFESSIONAL EXPERIENCE

Software and Digital Developer Intern, SKF (Fortune 500 Industrial Technology) May 2026 – Present | Bangalore

- Delivered a production 5S Audit Management app on Microsoft Power Platform, replacing paper-based factory compliance with digital audits, photo evidence capture, scoring, and action tracking.
- Built an 11-screen canvas app covering all five 5S pillars: per-pillar question banks of factory-floor criteria, department/zone selection, and weighted qualification-scoring with rounded thresholds.
- Modeled SharePoint-backed data (audit drafts, zone lists) on the SKF O365 tenant with Patch write-back and identity-aware, zone-scoped flows; shipped score-card and compliance-trend views for factory leadership.

GenAI Data Analytics Job Simulation, Tata Group (Forage) 2024

- Modeled delinquency risk on financial datasets with GenAI analytics; produced executive-ready recommendations.

PROJECTS

NEXORA, Production Search Engine | Python · FastAPI · Redis · BM25 [GitHub](#) · [Live Demo](#)

- Sustains 1,000+ QPS at sub-10ms p95 using a custom Okapi BM25 over a hand-built inverted index with Redis caching at ~85% hit rate; async REST APIs for search, corpus management, and live analytics.
- Benchmarked at ~2ms cached / ~5ms uncached; pytest and pytest-asyncio suite documented in repo.

SYNCOUT, Real-Time Collaborative Code Editor | Python · FastAPI · WebSockets · Docker [GitHub](#) · [Live Demo](#)

- Operational-Transform collaboration across 100+ concurrent sessions with sub-50ms sync, live cursors, and conflict resolution; Dockerized with GitHub Actions CI/CD.

GETYOQUERY, AI SQL Generator | Node.js · Express · React · Gemini API · SSE [GitHub](#) · [Live Demo](#)

- Natural-language-to-SQL across 8 dialects with JWT auth (bcrypt), PostgreSQL-backed query history, and structured JSON generation via Gemini streaming (SSE) with hallucination-reduction prompts.

Observability Platform | Prometheus · Grafana · Alertmanager · Loki

- End-to-end monitoring: Prometheus scraping, Grafana dashboards, Alertmanager routing, Loki log correlation, and node/Nginx/MySQL/Mongo exporters; SLI-style signals with alerting rules and runbooks.

TECHNICAL SKILLS

Languages & Frameworks: Python · FastAPI · JavaScript · Node.js · Express · React · OOP

Backend & APIs: REST APIs · Async Programming · WebSockets · SSE · Microservices · System Design · Unit Testing

Databases & Caching: PostgreSQL · MySQL · MongoDB · Redis · SQL · Schema Design · Query Optimization · Indexing

DevOps & Cloud: Docker · Docker Compose · CI/CD · GitHub Actions · Linux · Nginx · Git · Render

Observability: Prometheus · Grafana · Loki · Alertmanager · Metrics · Logging · SLI/SLO · Dashboards · Runbooks

AI & GenAI: LLMs · Generative AI · Google Gemini API · Prompt Engineering · NLP · Transformers · Information Retrieval

ML & Data: Machine Learning · Deep Learning · Pandas · NumPy · scikit-learn · Power BI

Platforms & Practices: Power Apps · SharePoint · Office 365 · Agile · SDLC · DSA (Data Structures & Algorithms)

EDUCATION & CERTIFICATIONS

B.Tech, Artificial Intelligence & Machine Learning, PES College of Engineering Expected May 2027

Certifications: Generative AI: Prompt Engineering Basics, IBM · GenAI Powered Data Analytics, Tata Group (Forage)