

Abhishake Gupta

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Staff Engineer | Forward Deployed Engineer | AI-Native Systems

[LinkedIn](#) | [Github](#) | [Website](#)

Professional Summary:

Staff-level Software Architect and Forward Deployed Engineer with 12+ years building distributed systems and AI-native engineering platforms. Embedded across 35+ enterprise clients at Checkmate — scoping per-client requirements, coordinating 10+ engineers on features and integrations, and owning incident response end-to-end on a multi-tenant platform. Established AI-native engineering standards adopted org-wide: context files, PII safety hooks, and LLM-orchestrated release automation — cutting triage costs ~\$4,600/yr and release prep by 5–7x. Track record includes a 99% latency reduction (40m → 3s) and cross-team API contract ownership. Comfortable operating in ambiguous, fast-moving environments across fintech, food-tech, aviation, and e-commerce — translating domain problems into working software without waiting for perfect requirements.

Technical Skills:

- Domains : Food-tech, Fintech, E-commerce, Medical, Storage and Backup.
- AI & LLM : Context-Engine Design, LangChain, Claude SDK, Ollama, AI Agents, RAG, MCP, AI-Augmented SDLC
- Architecture : REST APIs, Microservices, Distributed Systems, System Design, Rapid Prototyping, Technical Discovery
- Backend : Python (Expert), FastAPI, Flask, Django, Node.js
- Frontend : TypeScript, React, Next.js, JavaScript, Tailwind/CSS, HTML5
- Quant & Data : nselib, Pandas, NumPy, SciPy, Scikit-learn, Matplotlib
- Datastores : PostgreSQL, MySQL, MongoDB, Redis
- Messaging : Kafka, RabbitMQ, Celery
- DevOps : AWS (S3, EC2, SNS, RDS, IAM), Docker, Kubernetes, CI/CD
- Observability : Datadog, Splunk, ELK / Elasticsearch, Zabbix
- Market Feeds : ICICI Direct API, Interactive Brokers (IBKR), Zerodha, Bloomberg, Markit
- Payments : NMI, Razorpay, FreedomPay Omnitokens

Experience:

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|---------------------------------|----------------------|--------------------|----------------------|
| • Senior Backend Engineer | Checkmate | Remote | Jul 2023 – Present |
| • Senior Software Engineer | Bluetick Consultants | Remote | Aug 2022 – Jun 2023 |
| • Senior Software Developer III | Rackspace Technology | Gurgaon | Nov 2019 – Aug 2022 |
| • Senior Software Engineer | Gemini Solutions | Gurgaon | Dec 2017 – Nov 2019 |
| • DevOps Engineer | Global Analytics | Noida, Chennai | Aug 2016 – Nov 2017 |
| • Senior System Engineer | Infosys | Chandigarh, Mysore | Feb 2014 – July 2016 |

Major Projects:

- **Direct Ordering:** Embedded technical lead across 35+ enterprise clients — scoped per-client requirements, led 10+ engineers on delivery, and owned incident response end-to-end · Multi-tenant food-ordering platform · Python Flask, MySQL, Redis, Celery, React.

- Drove 99% reduction in menu sync latency (40m → 3s) via distributed Redis caching across 35+ restaurant brands.
- Architected **do-ai-context** — a shared AI context layer governing Claude Code usage across the engineering team: domain context files, PII/secrets safety hooks, and LLM-orchestrated release workflows.
- Delivered third-party integrations: Loyalty (Sparkfly, Punchh), Delivery (DoorDash, Uber Eats, Relay), Payments (NMI, FreedomPay Omnitokens).
- Built Slack-triggered AI debug agent (Claude SDK + Celery) with brand-scope and PII guardrails.
- Designed PageIndex — codebase navigation index reducing AI triage steps ~75%, saving ~\$4,600/yr
- Automated release workflow via LLM-orchestrated scripts cross-referencing Asana, GitHub, and cherry-pick history.
- Led Flask 1.x → Flask 3 + Connexion 3 (ASGI/uvicorn) migration; shipped ML-powered recommendations v2.
- Owned security hardening — reduced audit cycles from 30+ hrs to 6 hrs via AI-assisted review tooling; shipped admin 2FA, per-brand password rotation, login audit trail, and breach incident response.

Tech Stack: NMI, Python Flask, Redis, React, Docker, JWT, Datadog, Claude; Team Size: 10+

- **RealTime Trading System (Self-initiated · Full-stack ownership from architecture to execution):**

- Engineered real-time quote processing and automated order execution (Bracket, Trailing Stop-Loss, Target) via IBKR and ICICI Direct REST APIs.
- Built an LLM reasoning layer using LangChain + RAG (locally-hosted Ollama models) to contextualize trade signals against historical patterns and generate human-readable rationale before execution.

Tech Stack: Python, Pandas, LangChain, Ollama, RAG, Docker, Socket Programming, ICICI | Team Size: 1

- **Enterprise ETL Market Data Feed Handler:**

- Built production ETL aggregating Bloomberg and Markit API/FTP feeds into a unified schema for downstream trading and risk application.
- Designed normalization layer handling disparate protocols, timestamp alignment, and corporate action adjustments.

Tech Stack: Python, Test Driven Development, Docker, Bloomberg, Markit; Team Size: 1

- **MVP JioMarket Seller Central FMCG portal:**

- Designed a high-concurrency event-driven backend using Python (Sanic) and Kafka for real-time inventory updates and order processing across the merchant ecosystem.
- Cut time-to-market by 50% through clean API design and async-first architecture.

Tech Stack: Python, Redis, Flask, Kafka, Docker, JWT; Team Size: 4; Client: Reliance

- **StorageCenter & WidgetBoss · Rackspace**

- Modernized a legacy monolith into Kubernetes microservices, reducing API latency by 60% via asynchronous ETL (RabbitMQ + Celery).
- Built a CLI automation tool for storage backup management, cutting client-facing SLAs by 70%

Tech Stack: Python, React, Orchestration (Pod, Docker, Kubernetes), ELK, Splunk; Team Size: 6

Education, Certifications & Open Source:

- Bachelor of Tech [ECE] (76%) BPIT, Rohini (GGSIPU), Delhi 2013
- Anthropic : Claude Code in Action (Mar 2026)
- IBM : Generative AI: Introduction & Applications (Feb 2026)
- Coursera : Market Microstructure · Web3 and Blockchain Fundamentals
- Infosys : Certified Python Specialist · Systems & Open Source Training
- Open Source Maintainer : nselib (Python NSE Market Data Ingestion Library)
- Technical Writer : Medium & LinkedIn — AI-native development, distributed systems, quantitative trading
- Guest Speaker & Jury Member, BPIT — ECE Orientation + Algo-Rush 2026 (2025–2026)