

ABHIJEET TUPE

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SUMMARY

Senior full-stack and GenAI product engineer with 12 years of experience building APIs, SaaS platforms, partner integrations, AI assistants, retrieval pipelines, and production systems. Strong ownership from concept/prototype to MVP and launch, with hands-on experience across React/TypeScript, Java, Python, Node.js, cloud deployments, observability, and scalable API design. Interested in creative AI products where engineering directly shapes user expression, storytelling, and product quality.

CORE SKILLS

Languages: Java, TypeScript, JavaScript, Python, PHP, SQL, Node.js

Frontend: React, Angular, Next.js, HTML, CSS, full-stack web development

Backend & Platform: REST APIs, microservices, async workflows, authentication, caching, idempotency, integrations, observability, incident response

GenAI / ML: LLM integration, prompt engineering, structured outputs, embeddings, FAISS, vector search, RAG pipelines, sentiment analysis, evaluation, guardrails

Cloud / Data: AWS, GCP, PostgreSQL, SQLite, MySQL, MongoDB, CI/CD, PM2, cron automation, production monitoring

Leadership: architecture ownership, product-from-scratch execution, mentoring, technical advisory, cross-functional delivery

PROFESSIONAL EXPERIENCE

Walmart - Senior Software Engineer | Aug 2021 - Present | United States

- First engineer on Walmart Native Checkout, working from concept and prototyping through MVP and production deployment for partner-embedded commerce experiences.
- Built partner-facing APIs and cart integration flows enabling curated product lists to move into Walmart cart and checkout with real-time pricing, substitutions, and pickup/delivery store selection.
- Designed validation, authentication, resilient error handling, and production-ready integration patterns for external partner platforms including Roku, Pinterest, and similar commerce/ad channels.
- Shipped Walmart Creator platform capabilities for creators to negotiate with brands, participate in campaigns, and build dynamic storefronts across a large creator and product ecosystem.
- Built and owned Creator Care retrieval assistant using embeddings and FAISS vector search, including ingestion, chunking, indexing, retrieval, confidence-based fallbacks, and escalation to human support.
- Owned production dashboards, alerting, runbooks, incident response practices, and reliability improvements across partner and creator-facing systems.

Tech: Java, TypeScript, JavaScript, React, Node.js, REST APIs, microservices, embeddings, FAISS, vector search, CI/CD, observability, cloud platforms

DrugHelp.care - Software Development Engineer / Full-Stack Engineer | Feb 2020 - Jun 2021 | Cleveland, OH

- Built features for a public-domain addiction-treatment discovery platform led by PhD professors and researchers, supporting guided treatment search and advanced filtering.
- Developed PHP/Laravel and React application features across search, user flows, analytics, admin workflows, campaign tracking, and public-facing UX improvements.
- Worked on targeted marketing analytics to identify which channels, campaigns, and user segments produced stronger engagement and conversion outcomes.
- Built REST APIs, dashboards, and backend workflows supporting search, reporting, and experience improvements for treatment-discovery flows.

Tech: PHP, Laravel, React, JavaScript, REST APIs, MySQL, MongoDB, AWS, analytics dashboards, MVC architecture

StraViso - Senior Software Developer / Founding Engineer | Dec 2018 - Jan 2020 | Pune, India

- Early/founding engineer on core AI-SaaS and hyper-automation products, contributing hands-on code and architecture for enterprise customer-experience platforms.
- Incepted and helped build chatbot capabilities that became a core part of StraViso products for automation, customer engagement, and conversational workflows.
- Worked on KNEWS and Managed SaaS product areas, supporting enterprise knowledge, workflow, deployment, integration, and SaaS operations capabilities.
- Architected Socket.IO middleware connecting client applications with legacy chatbot frameworks, enabling multi-platform conversational integrations.
- Improved real-time chat performance by ~250% and reduced processing cost by ~40% through async processing, data-structure improvements, and backend optimization.

- Trained and mentored engineers while taking architecture decisions across real-time messaging, backend services, and SaaS delivery.

Tech: Node.js, JavaScript, TypeScript, Socket.IO, Angular, React, REST APIs, chatbot frameworks, SaaS platforms, SQL/NoSQL, cloud deployment

Argentavis Designing Labs - Co-Founder / Lead Engineer | Jan 2014 - Dec 2018 | Pune, India

- Co-founded a concept-to-product development studio helping startups, small businesses, and international clients convert ideas into working web and mobile products.
- Delivered 200+ client projects across India, the UK, and Germany, including business applications, e-commerce platforms, admin dashboards, CRM-style tools, APIs, CMS systems, and mobile app backends.
- Scaled the engineering team to ~30 developers, designers, and implementation contributors while managing multiple parallel client engagements.
- Owned architecture, estimation, client discovery, development planning, code reviews, deployment, production support, and technical proposals.
- Built and integrated REST/SOAP APIs, authentication systems, payment workflows, dashboards, CMS platforms, and business automation tools.

Tech: PHP, JavaScript, TypeScript, Angular, React, Node.js, Laravel, REST/SOAP APIs, MySQL, MongoDB, AWS

ADVISORY AND INDEPENDENT PRODUCT WORK

Nostradamus - Founder / GenAI Product Engineer | 2025 - Present

- Building a GenAI-powered market intelligence platform that analyzes financial news, intraday price/volume movement, and social sentiment to detect early signals behind major stock movements.
- Integrated LLM workflows for catalyst classification, sentiment interpretation, ticker validation, event summarization, novelty detection, false-positive filtering, and structured alert generation.
- Designed hybrid scoring system combining deterministic market-data rules with GenAI reasoning across catalyst strength, source credibility, timing/liquidity, attention pickup, and market reaction.
- Implemented guardrails for hallucination and noisy alerts, including strict ticker validation, PR-fluff detection, rumor/editorial filtering, multi-ticker roundup filtering, and confidence-based alert gating.
- Built production workflows for continuous ingestion, scoring, rescoring, health checks, monitoring, backfills, Discord/mobile-ready alerts, and daily evaluation loops.

Tech: TypeScript, Node.js, Python, SQL, PostgreSQL, SQLite, GenAI/LLM APIs, structured prompting, sentiment analysis, financial/news APIs, Reddit/social data, GCP, PM2, cron

TappN.ai - Technical Advisor / Product Architecture | Oct 2024 - Present | Advisory

- Advising founding team on foundational architecture for a real-time nightlife discovery product involving venue discovery, events, engagement, and commerce-style flows.
- Guided architecture decisions across frontend, backend APIs, data model, cloud deployment, scalability, observability, release planning, and production readiness.
- Supported engineering execution through architecture reviews, technical tradeoff discussions, system boundary definition, and team guidance in a passive advisory capacity.

Tech Guidance: React/Next.js, Node.js, TypeScript, REST APIs, PostgreSQL/MongoDB, cloud deployment, scalable API design, CI/CD, observability

EDUCATION

Cleveland State University - Master of Computer and Information Science (MCIS) | Apr 2021

Savitribai Phule Pune University - Bachelor of Engineering in Information Technology | Jun 2015

Maharashtra State Board of Technical Education - Diploma in Information Technology | Jun 2012