

Manan Shah

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PROFESSIONAL SUMMARY

Accomplished technology leader with 13+ years of experience in product strategy, scalable system architecture, and cross-functional team management. Expertise in cloud technologies, algorithmic trading, fintech, cybersecurity, DevOps, and AI-driven security solutions. Proven track record in delivering enterprise and consumer-focused innovations, driving agile transformations, and building high-performance tech teams.

SKILLS

Technologies/Languages: LLM Integration, Prompt Engineering, Python[Django, FastAPI],Numpy, Panda,Laravel, Meta Trade5,Celery
Databases: MySQL, PostgreSQL, Oracle, MS SQL, AWS Neptune, Redis, MongoDB, SQL, GraphQL
Cloud Services: Azure Cloud, Azure App Service, AWS EC2, S3 Bucket, ECR, Lambda, API Gateway, Docker, Route 53
DevOps & CI/CD: GitOps, DevOps, Azure DevOps, Linux & Windows Scripting Automation
Security & Firewall Management: Sucuri Firewall Management, Network Firewall Management
APIs & Architecture: REST API, Microservice Architecture, JWT Management
Front-End Frameworks: Angular.js, React.js, Storybook, Bootstrap
Mobile Technologies: Android [Java]
Tools: Putty, FTP, Git, BitBucket, Figma, Adobe E-Sign
Project Management Tools: Agile, Storyboard Management, Jira, Azure DevOps
CMS & Web Technologies: WordPress, HTML, CSS, JavaScript, jQuery

KEY STRENGTH

Technology Leadership

- Product Ownership
- Agile Methodologies
- Roadmap Development

Cloud & Security Expertise

- Cloud-Native Architectures
- Post-Quantum Cryptography
- API-First Design Microservices

Fintech & Enterprise Solutions

- Auto-Trading Systems
- Digital Banking
- Tax Tech

EXPERIENCE

CONEVET TECHNOLOGIES PVT. LTD. [Vice President– Technology]

Apr 2024 - Present

- Engineered a document-based LLM integration using **LangChain, OpenAI, and GraphQL** to enable natural language querying over enterprise document registries, delivering structured, real-time responses via Pydantic models.
- Developed modular AI tools for dynamic **querying and analysis**, specializing in client insights, banking, and financial status, using LLM-powered automation to streamline complex workflows and improve system interoperability across business platforms.
- Specializing in advanced **prompt engineering and agent orchestration**, fine-tuning LLM behavior for high-accuracy, context-aware information extraction from multi-source documents, ensuring reliability, traceability, and compliance.
- Led the architecture and development of a scalable, **privacy-first face authentication platform using FastAPI**, delivering sub-second API responses under high concurrency with modular APIs supporting 30+ languages and third-party integrations (ERPs, CRMs).
- Implemented cutting-edge security features including **post-quantum cryptography, AI-driven anti-spoofing, liveness detection, and dynamic JWT** lifecycle management to ensure secure, compliant authentication.
- **Delivered robust DevSecOps and infrastructure**, deploying fault-tolerant, Dockerized services with horizontal scalability, smart caching, and automated model pipelines, while mentoring the team and owning key backend and system components.
- Designed and deployed a **scalable trading system** using a **smart money concept with real-time market data analysis**, algorithmic trading logic, API-driven execution, and support for multi-asset trading, including forex, commodities, and crypto.
- Managing 10+ engineering team members, fostering cross-functional team communication to ensure efficient collaboration and project delivery.
- **Practiced agile best principles daily**—coordinating closely with developers during standups, proactively unblocking tasks, and ensuring backlog grooming, sprint planning, and retrospectives remained focused and actionable.
- Took a hands-on approach to sprint execution by **aligning individual strengths with tasks, fostering ownership, and continuous improvement in team velocity and delivery quality**.

BDO INDIA LLP [Associate Director – Tax Technologies]

Dec 2021 to Mar 2024

- As Product Owner, led product strategy and **architected large-scale tax tech solutions** using **advanced algorithms and API first practices**, aligning project goals with business objectives to foster innovation in **microservices-based architectures**.
- Leveraged Python libraries like **pandas** and **numpy** to implement precise tax determination logic, enabling complex data transformations and real-time tax rule evaluations for enhanced accuracy and scalability.

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- Architected secure data workflows with **encryption-at-rest and in-transit using AES-256**, ensuring compliance with regulatory standards for financial data protection.
- **Managed 20+ resident and remote team members** throughout the product lifecycle, driving agile methodologies and mentoring cross-functional teams for effective execution.
- Spearheaded the development of a comprehensive **Angular UI/UX component library**, **boosting productivity by 30% and reducing UI bugs by 50%** for consistent design across all the products.
- Optimized system performance to efficiently process millions of invoice records using **parallel processing and intelligent caching**, **reducing processing time by 60%**.
- **Estimated efforts accurately during sprint planning**, prioritized tasks aligned with business goals, and contributed as a hands-on developer by writing clean, maintainable code and performing thorough unit testing, ensuring high-quality, on-time deliverables in every sprint cycle.
- Collaborated with DevOps to design robust CI/CD pipelines, implementing GitOps practices for streamlined deployments and optimized processes.

TM SYSTEMS PVT. LTD. [Vice President – Tech Development]

Mar 2016 to Mar 2021

- Implemented fintech **mobile banking for 165+ cooperative banks** using C# and Flutter with RBI-compliant security and performance optimization, averaging **1M transactions per month per bank**.
- Launched a **mobile wallet with 100,000+ active users**, integrated with BillDesk for payment facilities.
- Built a **scalable news portal on AWS (S3, EC2, RDS, CloudFront)**, **handling 50,000+ hits per hour** with automated feed processing. Engineered an FTP watcher with Node.js for real-time updates and integrated WordPress with S3.
- Developed a **portal using RESTful API for MBC Group (UAE)** with complex workflows and payment gateway integration.
- Led the development of **Club Management, University ERP, and Custom Accounting Solutions** as product offerings.
- Worked with European clients for their **healthcare startup to develop a healthcare product**.
- Collaborated with the **World Bank on a geofencing project for NO2 level demonstration using Python and PostgreSQL**.
- Developed and **delivered 200+ WordPress and PHP websites** for customers.

MANASTR [Co-Founder]

Jun 2012 to Feb 2016

- Built a **single mobile app enabling 70+ banks** to perform view-only operations using **Java**.
- Developed and delivered the **"UR Invited" app for multi-event and invitation management** using **MVC Architecture**.
- Developed a **quick-delivery app with live location tracking and a vendor management system** using **CodeIgniter PHP**.
- Monitored daily tasks, system analysis, database design, code reviews, and project deployment.
- Managed client relationships with clear communication and timely milestone delivery.

PUBLICATIONS, BADGES & CERTIFICATES

OntoBAeval: Ontology-Based Automatic Evaluation of Free-Text Response - in IEEE

Towards Improving Automated Evaluation of Java Programs - in Springer

AWS Knowledge: Serverless from Amazon Web Services

AWS Knowledge: Architecting from Amazon Web Services

Container & Kubernetes Essentials V2 authorized by IBM

QC101 Quantum Computing & Introduction to Quantum Machine Learning from Udemy

Artificial Intelligence for Cybersecurity from LinkedIn by PMI Certified Education Provider

Agile Foundations from LinkedIn by PMI Certified Education Provider and IIBA

Enterprise Architecture in Practice from LinkedIn

Introduction to Large Language Models from Coursera, certified by Google

EDUCATION

Master of Computer Application (Grade : A+)

Jun 2012 to Apr 2015

Ahmedabad University, Ahmedabad, India

Bachelor of Computer Applications (Grade : A+)

Jun 2009 to Apr 2012

Ahmedabad University, Ahmedabad, India