

Anurag Kotha

Chief Technology Officer | AI & Systems Architect | LLM & RAG Specialist *Hyderabad, Telangana, India*

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Summary

ROI-focused Technology Leader with over a decade of experience in **AI, Quantitative Finance, and Scalable Systems**. I specialize in applying rigorous "financial-grade" validation to Generative AI, transforming experimental models into reliable, production-ready business tools.

As **CTO of VersaQuant**, I architected systems that reduced infrastructure costs by **50%** while scaling engineering teams. Recently, I have integrated **"Agentic" development** in my workflows, utilizing AI agents to accelerate coding velocity and build complex multi-modal products like **Profiler** (Dynaprice), which directly revitalized revenue streams. I thrive at the intersection of technical architecture and business strategy.

Experience

Dynaprice – New York (Remote)

AI & Engineering Consultant (via VersaQuant) *Feb 2025 – Present*

Served as the de facto Head of AI/Engineering, driving digital transformation and product strategy.

- **Built "Profiler" (Revenue Engine):** Architected and deployed a multi-modal AI system (React/Next.js/Python) that ingests images, voice, and text to autonomously generate structured equipment listings.
 - **Impact:** Solved a client acquisition drought, securing **4 new enterprise clients** immediately upon demo.
 - **Projected Value:** Estimated **\$100K+ annual revenue uplift** via cross-selling and streamlined onboarding.
 - **Agentic Development:** Orchestrated AI agents to generate ~90% of the codebase based on my architectural PRDs, demonstrating a high-velocity "Architect-First" workflow.
 - **Operational Efficiency:** Reduced listing creation time from **~20 min to < 2 min**, enabling factory-floor workers to digitize inventory via voice commands.
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VersaQuant Inc. – Hyderabad, India

Chief Technology Officer *May 2023 – Present*

Led the transition from legacy financial tech to a modern, AI-driven stack.

- **Architected "aiqsaas" (Cost Optimization):** Built a custom API layer using **Docker Swarm, Python (FastAPI), and WebSockets** to replace expensive MATLAB dependencies.
 - **Impact:** Eliminated **\$50K+ in annual licensing fees** and reduced cloud compute costs by **40-50%**, extending company runway by **6+ months**.
- **Developed "AskAlpha" (Early AI Innovation):** Implemented **RAG and Tool Calling** manually within a MATLAB environment (pre-standard libraries) to create a financial decision-making chatbot.
- **Team Leadership:** As Employee #1, hired and scaled the engineering team to **15 members**. Managed the full team lifecycle, optimizing structure and workflows amidst changing funding landscapes.

Chief Architect Nov 2019 – May 2023

- Led architecture of **AI-powered financial tools**, migrating legacy systems to scalable cloud infrastructure.
- Built **market prediction engines** and high-frequency trading analytics, reducing system latency by **50%+**.

Lead Quant Aug 2017 – Nov 2019

- Developed **live and backtesting engines** for algorithmic trading simulations.
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Forte Aegis – Chicago, IL / Remote

Chief Architect Apr 2018 – Present

- Built AI research tools for **options market intelligence**, scaling analytics software from **MVP to production-grade** systems.
 - Designed real-time data pipelines for processing high-volume financial indicators.
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Twin Disc – Racine, WI, USA

Sr. Control Systems Engineer Aug 2015 – Aug 2017

- Led **predictive analytics** for marine systems, enhancing automation and navigation safety.
- Developed **autopilot and propulsion algorithms** utilizing neural networks and PID controls.

MATLAB Developer (Control Systems) Jan 2014 – Aug 2015

- Built **predictive control systems** and motion simulators, integrating real-time vessel estimation algorithms.
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Selected R&D Projects

LexAI (Legal Tech Innovation) Current R&D Initiative

- Developing a high-fidelity **Legal AI Assistant** for the Indian market (BNS/BNSS/BSA acts).
 - **Tech Stack:** Advanced RAG, **Voyage AI** (Embeddings), **Zilliz** (Vector DB), **OpenRouter**.
 - **Innovation:** Testing zero-error retrieval architectures to solve LLM hallucinations in high-stakes domains. Demoed to high-net-worth legal professionals, generating investor interest.
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Education

Illinois Institute of Technology, Chicago, IL, USA

- **MS in Mechanical & Aerospace Engineering** (2011 – 2013)
 - **BS in Mechanical & Aeronautical Engineering** (2007 – 2011)
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Technical Skills

- **AI & Agentic Tech:** LLMs, Advanced RAG, DSPy (Prompt Optimization), Pydantic AI, Tool Use/Function Calling, Voyage AI, Zilliz.
- **Core Stack:** Python, MATLAB, Docker Swarm, Kubernetes, FastAPI, Go (Golang).
- **Web & Frontend:** React, Next.js, Express.js, TailwindCSS (Orchestrated via Agentic Workflows).
- **Cloud & DevOps:** AWS (EC2, S3, LightSail), GitHub Actions, CI/CD, DVC.
- **Domain Expertise:** Quantitative Finance, Control Systems, Legal Tech (RAG).