

QURATULAIN SHAH

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Full-Stack & Agentic AI Engineer | React/Next.js, Python, OpenAI Agents SDK (contributor). Specializing in Agentic AI, autonomous digital FTEs (24/7 AI Employees), and Multi-Agent Systems using Spec-Kit Plus. Expert in Retrieval-Augmented Generation (RAG), embeddings, vector databases (Qdrant), prompt engineering, tool use, Neon PostgreSQL, TON Blockchain, and orchestration (Docker, Kubernetes, Apache Kafka). Built real-time computer vision systems (>95% accuracy), Telegram Mini Apps, 3D portfolios, and multiple LLM-powered agentic projects with 111+ GitHub stars.

Skills

- **Languages:** Python, JavaScript/TypeScript, HTML5/CSS3
- **Frontend:** React, Next.js, Tailwind CSS, GSAP, Three.js, Vite
- **Agentic AI & Backend:** Spec-Kit Plus, OpenAI Agents SDK, Claude Code CLI, Multi-Agent Orchestration, RAG, Vector Databases (Qdrant), FastAPI, Chainlit, Neon PostgreSQL, Prompt Engineering, Tool Use
- **Blockchain:** TON Blockchain (TonConnect)
- **DevOps & Tools:** Docker, Kubernetes, Vercel, GitHub, Apache Kafka

Current Focus (2025–2026)

- Developing production-ready Agentic AI digital FTEs and Autonomous Agents using Spec-Kit Plus
- Building scalable Multi-Agent Systems with persistent memory and human-in-the-loop controls

Hackathons & Achievements

- Marketplace Builder 2025 — Developed full-stack production marketplace in 7-day hackathon
- API Integration Challenge (Jan 2025) — Built dynamic blog and e-commerce with real-time APIs
- Next.js Design Jam 2024 — Delivered pixel-perfect Figma-to-code in 24-hour challenge
- Responsive UI/Resume Builder (Sept 2024) — Led team for real-time editable multi-page resume builder
- Course Companion FTE — Built 24/7 autonomous AI Tutor using Spec-Kit Plus
- Todo Application Evolution — Transformed Todo app into full-stack RAG-powered application using Spec-Kit Plus, FastAPI, and Neon PostgreSQL
- Personal AI Employee — Developed proactive 24/7 digital FTE with Gmail/WhatsApp monitoring and human-in-the-loop approval
- RAG Chatbot & Digital Textbook — Built RAG-powered chatbot with Qdrant vector database and Docusaurus textbook on Physical AI & Humanoid Robotics
- Customer Success AI Employee — Built multi-channel 24/7 Customer Success Digital FTE using OpenAI Agents SDK, FastAPI, PostgreSQL (pgvector), Kafka, and Kubernetes

Key Projects

- **Stakee - TON Staking Telegram Mini App (Client Project):** Delivered Telegram Mini App for TON staking in 1 day. Features: TonConnect integration, real-time dashboard, AI chat assistant. Tech: React 19 + Vite + Tailwind CSS Live Demo
- **Course Companion FTE:** Built 24/7 autonomous AI tutor with grounded Q&A, Socratic tutoring, and progress tracking using Spec-Kit Plus.
- **Personal AI Employee:** Created proactive 24/7 AI assistant with Gmail/WhatsApp monitoring, Claude Code reasoning, and human-in-the-loop approval.
- **Real-time Hand Gesture Systems:** Developed OpenCV + MediaPipe apps with >95% accuracy for finger counting, gesture calculator, and voice+gesture UI.
- **Agentic Automation Tools:** Built 25+ Python autonomous agents. GitHub-to-Resume generator (11 stars). Total 111+ stars across 113 repositories.
- **Full-Stack & 3D Web Applications:** Created responsive animated websites and 3D interactive portfolios using React, Next.js, Three.js, and GSAP.

Certifications

- Tata — GenAI Powered Data Analytics Job Simulation (Forage)
- Datacom — Automation AI Accelerator (Forage)
- Vista Equity Partners — AI in Action Job Simulation (Forage)
- Skyscanner — Software Engineering Job Simulation (Forage)
- JPMorgan Chase — Software Engineering Job Simulation (Forage)
- BCG — GenAI Job Simulation (Forage)