Rishabh Maurya

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Education

- **KIET Group Of Institution Engineering College** — Ghaziabad, India
  Bachelor of Technology - Computer Science And Engineering; GPA: 8.1 — *Sep 2018 - June 2022*
  Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Networking, Databases*

Skills Summary

- **Languages**: JavaScript, TypeScript, Golang, Python, SQL, NoSQL
- **Frameworks**: Next.js, React, Node.js, Django, FastAPI, LangChain, LangGraph, Tailwind CSS
- **Cloud & DevOps**: AWS, Google Cloud Platform (GCP) – Cloud Run, Cloud Functions, Cloud Scheduler, Cloud Storage, Azure, DigitalOcean, Cloudflare (CDN, Stream), Supabase, Docker, Kubernetes, Jenkins
- **Databases**: PostgreSQL, MongoDB, Redis, DynamoDB
- **Messaging & Realtime**: RabbitMQ, WebSockets, WebRTC, Live & On-demand Video Streaming (Cloudflare Stream), Event-driven Systems
- **AI & Agent Systems**: Agent Development Kit (ADK), Anthropic Agent SDK, OpenAI SDK, Tool Use / Function Calling, Agent Memory & Memory Compaction, Long-Context & Large-Document Processing, Advanced RAG, Agentic RAG, Multimodal AI, Voice-to-Voice Agents, Gemini File Search & Store, mem0, Realtime Gemini Live API, Boolean Search & Sourcing Agents, Candidate Scoring, Document Intelligence, Artifact Generation, Automated Agentic Workflows
- **Architecture & Design**: Microservices Architecture, System Design, API Design, Scalable Distributed Systems
- **Tools & Platforms**: Git, Lens, Stripe, PhonePe, Razorpay, n8n, MCP Protocol, A2A Protocol, JobDiva, Bill.com, Social Media APIs (Instagram, X/Twitter, TikTok, Threads, Bluesky)
- **Soft Skills**: Leadership, Problem Solving, Cross-Functional Collaboration

Experience

- **Aircreator.ai** — Remote
  Senior Software Engineer / Lead Engineer — *Jan 2026 - Present*
  - **Multi-Platform Publishing Engine**: Leading full-stack development of a unified social publishing platform that connects Instagram, X (Twitter), Threads, TikTok, Bluesky and more, enabling creators to publish videos and content across every connected channel with a single click.
  - **AI Caption & Content Generation**: Built one-click, platform-aware AI caption generation that adapts tone and format to each network's context, auto-generating ready-to-post captions and streamlining content creation.
  - **Smart Scheduling & Growth Automation**: Developed a scheduling system to queue and auto-publish posts across all platforms with one click, plus automated workflows that increase feed activity and drive engagement.
  - **Cross-Platform Analytics**: Built an analytics layer that aggregates and visualizes performance across every connected platform and recommends the optimal days/times to post based on engagement data.
  - **Real-Time Video Streaming**: Built real-time video streaming so creators can upload and instantly stream video on the platform, powered by Cloudflare Stream for low-latency, scalable delivery.
  - **Full-Stack Architecture & Cloud Infrastructure**: Own the product end-to-end with Next.js (frontend) and FastAPI (backend), hosting the entire stack – both frontend and backend – on GCP (Cloud Run, Cloud Functions, Cloud Scheduler, Cloud Storage buckets) alongside deployed AI agents. Use Cloudflare CDN for fast global image/asset delivery, PostgreSQL for data, and Supabase for authentication and domain mapping; architected to scale to a large, growing user base.
- **TechBrig (Software Agency)** — Remote (Part-time)
  Software Engineer – AI & Automation — *2025 - Present*
  - **Axiom Global Technology – AI Recruitment Automation**: Built an end-to-end AI hiring pipeline: jobs are pulled from JobDiva on creation, an expert-tuned AI agent generates Boolean search strings, sources and shortlists candidates, and a scoring agent ranks each against the job description and resume. The top ∼80% are advanced to pre-screening with automated multi-step email outreach (3-4 follow-up triggers) and automatic first-round interview scheduling. ***Live***
  - **RKC Consultant – Bankruptcy Automation Platform**: Engineered a bankruptcy case-management platform featuring a document indexer that auto-categorizes requested documents into categories/sub-categories, RAG-powered chat over case documents (Gemini File Search & Store + ADK), and custom-built, tool-rich AI agents that analyze documents in real time and generate artifacts (sheets, decks, docs) in user-defined formats with public/private sharing. Automated bank-statement analysis and per-account categorization, report generation (GL mapping, Bill.com, preference & cash management), and AI-assisted filing of recurring bankruptcy forms – SOFA (Statement of Financial Affairs), SOAL (Schedules of Assets & Liabilities), Monthly Operating Reports, and more. Long-running agents run 24/7 in the background on GCP with cross-tab completion notifications, architected to scale to millions of users.
  - **Elevate IR – Investor-Relations Draft Generation**: Built an IR platform that generates quarterly analyst deliverables (press releases, prepared remarks, Q&A theme memos) from source Word documents. The agent auto-selects the relevant source documents per deliverable and produces cited, correctly formatted drafts, alongside a full dashboard for login, client management, and document management. Designed a tool-using agent system built on the Anthropic Agent SDK and OpenAI SDK, with agent memory and memory compaction to reliably handle very large source documents as inputs. ***Live***

- **Dexter Capital** Bengaluru, India
  Senior Software Engineer *June 2025 - Dec 2025*
  - **Deal Flow Automation System**: Built comprehensive automation system using n8n workflows (100+ nodes) that processes 450-600+ monthly inbound deals. Implemented automatic deal assignment based on team expertise, instant dashboard population with complete deal information (sector, sub-sector, industry, revenue model, founder contacts, deal stage), and automated CRM integration.
  - **AI-Powered Deal Analysis**: Developed automated deck analysis system generating detailed notes enriched with external data including founder LinkedIn profiles, mentor/advisor information, and market intelligence. Integrated LangChain for intelligent document processing and data extraction.
  - **Workflow Optimization**: Reduced dashboard management time by 90% and saved 150+ productive hours for the Investment team in 15 days. Built automated distribution system via WhatsApp and systematic filing in shared drive and CRM tools, enabling the team to focus on evaluating opportunities and supporting founders.
  - **Internal Tool Development**: Designed and developed custom internal tools for venture capital operations, improving operational efficiency and data management across the investment pipeline.
- **Monkey Science** Bengaluru, India (Hybrid)
  Founding Engineer *September 2021 - June 2025*
  - **Core Platform Development**: Served as a core member, independently managing the product side of the Monkey Science platform (monkeyscience.io), including AI Tutor, Monkey Bot, simulation platform, and dashboards. Built scalable solutions using Next.js for frontend, Golang/Node.js/Django/FastAPI for backend microservices, LangChain and LangGraph for AI workflows and PostgreSQL/MongoDB for data management, supporting 50+ institutions.
  - **AI Tutor**: Built personalized AI tutor that explains simulations and science concepts with real-time interruption/resume, contextual suggestions from previous discussion, and direct simulation control during conversations. Improved student engagement by 30% and retention by 25%. ***AI Tutor Demo***
  - **Monkey Bot**: Built multimodal RAG chatbot with audio/text input/output capabilities for simulation control and Q&A. Features visual workflow design with React Flow for parameter adjustments and camera control, integrated with Google Cloud APIs and ElevenLabs across 300+ simulations.***MonkeyBot Demo***
  - **Simulation Learning Platform**: Designed a platform with over 300+ interactive simulations aligned with the Indian Science Curriculum, featuring student and admin dashboards for progress tracking and management. Scaled to handle increased user load using PostgreSQL. ***Platform Demo***
  - **Realtime Simulation Streaming**: Built a system to stream simulations to audiences, enabling use cases like online classroom streaming with optional audio, video, and text features. Leveraged WebRTC and Node.js for low-latency delivery.
  - **Payment Gateways**: Integrated Stripe, PhonePe, and Razorpay for seamless subscription and payment processing, enhancing user onboarding and revenue streams.
  - **Nimbus Platform**: Developed the Nimbus platform to enable integration of Monkey Science products with third-party LMS and educational software, using API-based authentication (access and secret keys).
  - **Nimbus Sandbox**: Created a secure sandbox environment using Next.js, allowing users to test Monkey Science integration with their software using API-based authentication (access and secret keys). Authored comprehensive documentation to streamline developer onboarding, reducing integration time by 50%.
  - **SEO and Growth**: Optimized platform SEO, increasing organic traffic by 40% through keyword strategies and performance enhancements.
- **Internship** Germany (Remote)
  Full Stack Developer *March 2021 - August 2021*
  - **Seat Reservation Application**: Developed a seat reservation system for restaurants using React, Express.js, and MongoDB. Implemented PostMark for confirmation emails and Twilio for SMS reminders, ensuring a seamless user experience. ***Demo***

Projects

- **AI Recruitment Automation (Axiom Global Technology / TechBrig)**: End-to-end AI hiring pipeline that pulls jobs from JobDiva, runs an expert-tuned Boolean-search sourcing agent, scores candidates against the JD/resume, advances the top matches to pre-screening, and drives automated email outreach and auto-scheduled first-round interviews. Built with AI agents on GCP. (2025 - Present) ***Live***
- **Bankruptcy Automation Platform (RKC Consultant / TechBrig)**: RAG-based case-management platform with document indexing, custom tool-rich artifact-generating AI agents (Gemini File Search & Store + ADK), automated bank-statement analysis and categorization, report generation (GL mapping, Bill.com, preference/cash management), and AI form filling (SOFA, SOAL, Monthly Operating Reports, and more). 24/7 background agents on GCP, scaled to millions of users. (2025 - Present)
- **Investor-Relations Draft Generator (Elevate IR / TechBrig)**: Generates quarterly analyst drafts (press releases, prepared remarks, Q&A theme memos) from source Word documents with automatic source-document selection and citations, plus a full client and document management dashboard. Built a tool-using agent system (Anthropic Agent SDK, OpenAI SDK) with memory compaction to handle very large documents as inputs. (2025 - Present) ***Live***
- **Aircreator.ai – Multi-Platform Social Publishing**: Unified platform to connect Instagram, X, Threads, TikTok, and Bluesky and publish with one click, featuring AI caption generation, cross-platform scheduling, analytics visualization, and posting-time recommendations. Built with Next.js, FastAPI, PostgreSQL, GCP, and Supabase. (Jan 2026 - Present) ***Live***

- **AI Tutor Platform (Monkey Science)**: A dynamic AI-powered personal tutor, delivering personalized, real-time learning support that mirrors a human tutor, enhancing student engagement and mastery. Utilized Realtime Gemini Live API, Next.js, Django, and PostgreSQL. Improved student retention by 25%. (January 2025 - June 2025) ***Demo***
- **Monkey Bot (Monkey Science)**: Developed a conversational messaging system with Retrieval-Augmented Generation (RAG) for accurate responses, integrated with Google Cloud APIs and Realtime Gemini Live API. Designed for future teacher/student interaction. (September 2024 - June 2025) ***Demo***
- **Simulation Learning Platform (Monkey Science)**: Developed a platform with 300+ interactive simulations, including student/admin dashboards and payment integrations (Stripe, PhonePe, Razorpay). Scaled to 50+ institutions. (September 2021 - June 2025) ***Demo***
- **Nimbus Integration and Streaming (Monkey Science)**: Built Nimbus platform for third-party LMS integration and real-time simulation streaming. Enabled online classroom use cases with audio/video/text features. (November 2024 - June 2025) ***Demo***
- **Nimbus Sandbox (Monkey Science)**: Created a sandbox for users to test Monkey Science integration with their software using API-based authentication (access and secret keys). Authored documentation, reducing onboarding time by 50%. (November 2024 - June 2025) ***Demo***