

RATHEESH R

Senior Full-Stack Engineer · AI Systems · Technical Lead

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PROFESSIONAL SUMMARY

Senior full-stack engineer and technical lead with 20+ years delivering production systems across web, mobile, AI, and algorithmic trading domains. Hands-on across the entire stack — from React frontends and FastAPI backends to GPU-optimized ML pipelines and embedded trading engines. Recent focus: AI-powered automation (LLM orchestration, voice AI, video generation pipelines) and real-time financial systems on GCP. Equally comfortable architecting systems and writing production code.

TECHNICAL SKILLS

AI / LLM	Claude API (Haiku/Sonnet), OpenAI, LangChain, ElevenLabs TTS, AssemblyAI STT, Kling AI, Stability AI, Whisper, Ollama (local inference)
Languages	JavaScript / TypeScript (Node.js, React 18), Python (FastAPI, Flask), PHP, Java (Android), Swift (iOS), SQL
Backend	FastAPI, Express.js, REST APIs, WebSockets, JWT Auth, OAuth 2.0 (Gmail), SQLite, MongoDB, MySQL, Redis
Frontend	React 18, Single-Page Apps, HTML/CSS, Figma-to-code, responsive UI
Cloud & DevOps	GCP (Compute Engine, Cloud Storage), AWS (EC2, S3, RDS), Docker, CI/CD, Nginx, Systemd, Cron automation
Trading Systems	Zerodha Kite Connect, TOTP auto-login, RSI/MACD/ORB strategies, paper/live mode, circuit breakers
Mobile	Android (Java), iOS (Swift), React Native, Play Store / App Store deployment
Tools	Git, GitHub, Postman, Jira, Trello, VS Code, Android Studio, Xcode

PROFESSIONAL EXPERIENCE

Pickzy Interactive | [Principal Engineer](#) | Chennai | Nov 2013 – Present

- ▶ Built SalesAI — an AI-powered outreach CRM with Gmail OAuth multi-account management, Apollo.io lead sourcing, Claude Haiku email drafting (market-aware: US/EU/India tone variants), WebSocket reply notifications, and 4-role JWT auth. Stack: FastAPI + React 18 + SQLite.
- ▶ Engineered YTShorts Studio — a full-stack YouTube Shorts automation platform generating, scheduling, and uploading AI-produced videos using Claude, ElevenLabs, Kling AI, Pexels, and YouTube Data API. Solved complex AV sync, audio normalization (-14 LUFS), and caption rendering challenges.
- ▶ Deployed AI Trader — an automated stock trading bot on GCP (Zerodha Kite Connect) with RSI+MACD+MA and ORB strategies, TOTP auto-login, dual paper/live modes, Claude AI decision agent, circuit breaker, and Nifty crash filter. ~57% win rate in 5-month backtest.
- ▶ Designed and delivered 15+ client products including a real-time betting platform backend (Nubet), BayFay e-commerce, Cookn recipe platform, Voicebase TTS SaaS, POS systems, and real-time tracking apps.
- ▶ Architected systems using Monolithic, Microservices, and Event-Driven patterns; mentored junior engineers and led Agile sprint planning across distributed teams.

Vanalauri · [Principal Software Engineer](#)Austria (Remote) | Aug 2022 – Apr 2024

- ▶ Led backend development of Nubet (nubet.com), a real-time betting platform. Built WebSocket-based event processing engine, back-office API integrations, and betting rules logic.
- ▶ Stack: PHP, Node.js (Express), MongoDB, Redis, MySQL, ExtJS. Delivered against tight regulatory and performance requirements for European market.

Yume · [Senior Software Engineer](#)Chennai | Feb 2012 – Nov 2013

- ▶ Built native mobile video advertisement SDKs for Android (Java) and iOS (Objective-C). Created reusable, performant modules deployed across publisher apps at scale.

Photon Infotech · [Project Lead](#)Chennai | Nov 2008 – Feb 2012

- ▶ Led delivery of 10+ iOS projects including iPass Mobile, Comcast App, and Bigfoot (iOS game). Integrated Firebase, push notifications, socket.io, C/C++ modules, and an Nginx catch-proxy module.

Songbirdtech · [Software Engineer](#)Chennai | Jun 2005 – Nov 2008

- ▶ Developed IoT and embedded application software using the Qt framework across Linux-based devices.

NOTABLE AI & PRODUCT PROJECTS

SalesAI CRM	AI sales outreach CRM — Gmail OAuth, Apollo.io integration, Claude-generated emails, role-based access, HTML threaded inbox, AI lead scoring (1–10).
YTShorts Studio	End-to-end YouTube Shorts automation — LLM script generation, ElevenLabs narration, Kling AI video, Pexels stock, AssemblyAI captions, YouTube upload scheduling.
AI Trader	Automated Zerodha trading bot on GCP — RSI/MACD/ORB strategies, Claude AI agent, dual paper/live mode, TOTP auto-login, safety circuit breaker. 57% win rate backtest.
Kavya (Voice AI)	Tamil-language AI voice companion — Google STT (ta-IN), Claude Haiku reasoning, Edge TTS (Pallavi Neural), hands-free earphone-first UX. Personal prototype.

EDUCATION & CERTIFICATIONS

B.E. Computer Science Engineering · Anna University, Chennai · 2005

ADDITIONAL

- ▶ Languages: English (professional), Tamil (native)
- ▶ Available for remote, hybrid, or relocation roles — US / EU / India
- ▶ Strong interest in AI product engineering, LLM orchestration, and high-performance automation systems
- ▶ Published Android app on Google Play Store (BayFay)