Rahul R. Madawalkar

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Education

Goa Engineering College — Goa, India
B.E. in Information Technology; CGPA: 9.0 — *2021 – 2025*

Experience

Freelance Full Stack & Automation Engineer — Remote
June 2025 – Present

- **TSP Wealth (UK, FCA-regulated wealth firm):** Built 4 AI and automation systems that cut manual admin.
  - **AI Email Assistant:** A partner's inbox was flooded with mail for other staff, all sorted and forwarded by hand. Built a **Claude** agent that labels each email, auto-forwards it to the right colleague, and drafts replies in **Outlook**.
  - **AI Meeting Notes:** Generic AI note-takers only summarize, so advisers still hand-wrote every regulated client note. Built a **Claude** tool that writes the note in the firm's regulated format and files it to the client's CRM once the adviser approves.
  - **CRM Email Sync:** The CRM missed emails sent to clients, a compliance gap; now every client email is filed automatically.
  - **Clio Document Alerts:** Staff had to keep checking Clio for new case documents; now the team gets an email for each one.
- **Event Supplier Automation (Togather.com):** Reverse-engineered undocumented GraphQL APIs with **Burp Suite** and replaced fragile Puppeteer scripts with an **n8n workflow**, cutting daily operations from **3 hours to 3 minutes** and saving approx. **58 hours/month** with 100% uptime.
- **Shopify E-Commerce:** Built high-revenue Shopify stores for **Tower London UK** (GBP 18k/mo) and **Paving Experts UK** (GBP 1M turnover), including WordPress migrations, bespoke Liquid themes, **Xero** integrations, custom plugins, product-export apps that reduced manual work by **99%**, and a multi-channel sales dashboard replacing manual Excel reports.
- **Cloud & Automation:** Deployed a PDF-to-Excel banking converter on **AWS** with EC2 and RDS; built email FAQ, calendar scheduling, follow-up, and WhatsApp summary automations; owned CI/CD and production deployments for **10+** applications.
- **Ads Analytics (Edison Studio):** Built a **Next.js** app turning **Meta Ads API** data into granular PDF marketing reports.
- **Security Research:** Reported **2 critical** and **3 high-severity** vulnerabilities through a private MongoDB program and helped a fintech platform identify critical misconfigurations and data leaks.

Thalus Technologies Private Limited — Remote
Junior Backend Developer — *July 2025 – 2026*

- Developed backend services for an **AI governance and risk assessment** product.
- Migrated core services from legacy **Django/Python** to leaner **EffectTS**, containerized for consistent deployment.
- Contributed across the **EffectTS + TanStack** product rebuild, built the **ops/CI-CD pipeline**, reduced infrastructure costs by **60%**, and delivered local and remote **MCP** servers.

Nexocide Private Limited — Internship
Backend Developer (Node.js) — *July 2024 – August 2024*

- Engineered a pipeline to aggregate high-volume WebSocket data into a time-series database for algorithmic trading.
- Improved trading algorithm implementation efficiency by **30%** and developed a custom OAuth2 package for the Upstox API.

Projects

Smart Security Incident Response Accelerator (SSIRA) | *Splunk, AI/ML, Python*

- Built a Splunk app that reduces Mean Time to Resolution (MTTR) from hours to minutes.
- Implemented automated threat-detection workflows that shift SecOps teams from reactive investigation to proactive defense.

Dhoon - High Performance Spotify Downloader | *Go, Docker, Nginx, EC2*

- Built a high-concurrency media downloader in **Go** and implemented the Shazam algorithm for song identification, deployed with **Docker** on AWS EC2 behind an **Nginx** reverse proxy with HTTPS.
- Improved resilience through persistent volumes, structured logging, and deployment hardening.

Achievements

- **Winner:** Splunk Build-a-thon 2025 (Rs. 25k prize)
- **Finalist:** Fintech Olympiad Nationals **2024, 2025**
- **Global Rank 187:** Unstop Platform
- **Top 20/4.8L:** Flipkart GRID 6.0 (Software Track)
- **Finalist:** NFLQ 2025 (West Zone)
- **Top 50:** Unstop Talent Park 2025
- **Invited Visit:** ISRO (Indian Space Research Org.) - **2x**
- **Finalist:** Schneider Electric Codeathon 2024
- **2nd Place:** HackIndia 2025 Regional Round
- **Cloud Project Credits:** $5000 Azure, $600 AWS

Technical Skills

Languages: Python, Go, TypeScript, C++, Java, Shopify Liquid
Frameworks/Libs/Tools: EffectTS, Next.js, Node.js, LangChain, Zod, Burp Suite, Postman, MCP
Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Terraform, Nginx, GitHub Actions
Databases: PostgreSQL, MongoDB, Redis