

DEEPESH KUMAR

SOFTWARE ENGINEER · AUTOMATION & AI

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I build systems that take manual work off people's plates: AI document pipelines, outreach and scheduling automation, LLM monitoring and incident tooling. At Tax Consulting South Africa I've shipped 9 internal systems end-to-end for a 250+ person firm, on Python, FastAPI, Node.js, Next.js, Microsoft Graph and Azure.

WORK EXPERIENCE

TC Tax Consulting South Africa | Software Development Engineer

Tax & expat advisory firm · Remote Sep 2025 – Present

- **AI document pipelines**
 - Built a daily legal-monitoring pipeline that scrapes SAFLI for new Government Gazettes, flags tracked corporate Acts, rewrites them into plain-English summaries via the OpenAI Batch API (50% cheaper than standard calls) and files Word reports to SharePoint, all scheduled on GitHub Actions.
 - Built LegalProcessor, an 8-stage PDF → plain English → DOCX pipeline publishing to Azure Blob, SharePoint and WordPress, with a React + TypeScript dashboard that tracks every stage live.
- **Outreach & scheduling**
 - Built a multi-tenant lead-engagement platform (FastAPI, Postgres, Microsoft Graph) automating Outlook outreach, reply tracking, Teams bookings and Playwright-driven LinkedIn outreach, with human-approved AI replies and an MCP server for internal assistants.
 - Shipped a WhatsApp meeting-reminder service (Node.js, Prisma, Twilio) that syncs Microsoft 365 calendars through Graph webhooks and messages every attendee 10 minutes before a call, handling reschedules, cancellations and duplicate-safe sends.
 - Built a real-time office café ordering app (Next.js, Prisma, SSE); baristas run the queue from WhatsApp buttons.
- **AI monitoring & insights**
 - Built multi-LLM brand monitoring across 6 providers with weekly mention and ranking reports (Flask, MongoDB, Next.js dashboard), contributing to a 21% rise in brand visibility across major AI models in 4 months.
 - Built YouTube audience intelligence that turns comments across the channel's 294 videos into ranked video ideas, content gaps and unanswered questions with gpt-4o-mini, at about \$0.10–0.20 per run.
- **Engineering tooling**
 - Built an incident copilot (FastAPI, ARQ/Redis, Postgres) that ingests production alerts, pulls context from GitHub, Vercel, Azure and Forge, writes AI triage, routes Outlook escalations to service owners and files reports to SharePoint.
 - Building a PR code-review bot on an internally hosted LLM so code never leaves company infrastructure; now in a silent-mode pilot.

CS CreditSea | SDE Intern

Fintech lending platform · Remote Oct 2024 – May 2025

- **Product build**
 - Rebuilt the core web app's architecture and user flows, shipping a stable production release in 1.5 months that lifted conversion and cut critical errors.
 - Automated bank-statement parsing and added progress tracking and engagement analytics, cutting manual intervention by 45%; set up CI/CD and Husky.

UD Upside Down Labs | SDE Intern

Open-source bio-sensing hardware · New Delhi Jun 2024 – Aug 2024

- **Real-time signal tools**
 - Built a biosignal visualizer (Next.js, Django) for EMG, ECG, EEG and EOG, streaming 500+ points/sec over WebSockets with automatic serial-port detection.
 - Designed Django APIs for multi-channel FFT analysis, plotting and data export across 8+ channels.

ROLE-RELEVANT EXPERTISE

- 🔧 **Automation & backends**
Python, FastAPI, Flask, Node.js, Express, Playwright, webhooks, cron & GitHub Actions, Redis/ARQ queues
- 🧠 **AI & LLM systems**
OpenAI (incl. Batch API), Claude, Gemini, multi-LLM evaluation, MCP servers, human-in-the-loop design
- 🔗 **Integrations**
Microsoft Graph (Outlook, Teams, SharePoint), Twilio WhatsApp, GitHub, Gmail & YouTube APIs
- 💻 **Frontend**
Next.js, React, TypeScript, Tailwind, TanStack Query
- 📄 **Data & cloud**
PostgreSQL, MongoDB, Prisma, SQLAlchemy/Alembic, Azure, GCP Cloud Run, Vercel, Docker

PERSONAL PROJECTS

ContextZip · contextzipcli.com
Open-source CLI that packages the right parts of a codebase for any AI tool in one command. On PyPI, npm & VS Code Marketplace, with an MCP server. 29 GitHub stars.

GmailCleaner · [GitHub](https://github.com)
Self-hosted, confirm-first Gmail cleanup: Gemini triage, unsubscribe engine & daily digest on Cloud Run, Pub/Sub and Cloud Scheduler.

EDUCATION

B.Tech, Mechanical Engineering
Netaji Subhas University of Technology
New Delhi, 2021–2025

SELECTED RECOGNITION

WakaTime #2 globally, twice
Among 200K+ developers (103 h and 93 h weeks)

Hacktoberfest, 4 years in a row
Top 50 globally three times