AKASH PAWARA

Full-Stack Software Engineer | Python, React and Applied AI
Mumbai, India | +91 7506021898 | akashpawara29@gmail.com | linkedin.com/in/akashpawara | github.com/akashpawara | akashpawara.com

PROFESSIONAL SUMMARY

Full-stack engineer with 5+ years of experience shipping Python backends, React and React Native front ends, data pipelines and automation for large industrial companies. As Senior Engineer ITM at Thyssenkrupp Uhde, I build applications and reports for seven business functions, from HR and finance to procurement and civil engineering, more than 15 of each are in production today. I also run the data layer underneath (SQL Server, SSIS pipelines from SAP, Power Platform gateways to Azure) and work with data teams on AI-powered dashboards built on it. At Saint-Gobain I built Django REST services, a React Native employee app, CI/CD pipelines and a global IT asset management rollout. Outside work I build multi agent AI systems at hackathons, including a six agent SRE incident commander, and I won the Smart India Hackathon twice.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, C#, PowerShell, Bash
Frontend and mobile: React, Next.js, React Native, Expo, HTML, CSS
Backend: FastAPI, Django, Django REST Framework, Flask, Node.js, REST APIs, event-driven microservices, ASP.NET MVC
AI and LLMs: OpenAI and Gemini APIs, multi-agent LLM systems, AI-powered dashboards and automation workflows
Data: PostgreSQL, SQL Server, MySQL, Oracle, Pandas, NumPy, SSIS, Talend
Cloud and DevOps: AWS (EC2, Lambda, S3), Azure, Docker, GitLab CI/CD, GitHub Actions, Nginx, IIS, Linux, pytest
Enterprise platforms: Power Apps, Power Automate, Power BI, SharePoint, Active Directory/SSO, ServiceNow CMDB, SAP data integration

PROFESSIONAL EXPERIENCE

Senior Engineer ITM | Thyssenkrupp Uhde India Private Limited, Mumbai (contract via TeamLease) **May 2025 - Present**

- Own the intranet platform for timesheets, travel and accounting end to end: approval workflows, application code and IIS hosting with SSL and Active Directory authentication. Approval cycle time fell by 40%.
- Partner with business and data teams on AI-powered dashboards and automation workflows that support faster operational decisions.
- Develop Power Platform solutions (Power Apps, Power Automate, Power BI) that replaced manual handoffs in reporting and approvals, and maintain the on-premises data gateways linking them to Azure and private servers.
- Design the SQL Server data layer behind these systems: stored procedures, triggers and views that automate routine processing, plus query tuning that made key queries 35% faster.
- Build SSIS packages and ETL workflows that feed SAP and procurement data into reporting for analytics and forecasting.
- Automate reporting, file processing and Active Directory tracking for onboarding and team transitions with PowerShell, saving more than 200 hours of manual work a month.
- Support Excel VBA integrations with Oracle and write the technical documentation for every project delivered.

Freelance Software Engineer | Self-employed, Remote (client names confidential) **Jul 2024 - May 2025**

- Fintech client (Dec 2024 - May 2025): built a FastAPI trading backend with Interactive Brokers and Alpaca integrations, plus Next.js dashboards for live trading and analytics. Hosted it on AWS EC2 and set up a secure tunnel from the instance to the client's local machine so the backend could use the Interactive Brokers service running there.
- Driving-education client in Italy (Jul 2024 - Dec 2024): built a React Native app on a Django REST backend with Vimeo video streaming and Stripe subscriptions, deployed with Docker and Nginx on Linux.

Software Engineer | Saint-Gobain INDEC, Mumbai **Dec 2021 - Jul 2024**

- Created an employee classifieds app end to end: a React Native and Expo front end, and a Django REST Framework backend (JWT and role-based access, custom middleware, normalised PostgreSQL schema).
- Led the global rollout of LOGINventory for IT asset management (2023 - 2024): regional compliance setup, custom Windows and Linux agents, agentless scans, upgrades and central monitoring.

- Exposed the asset inventory through Django REST APIs, ran the automation in Docker with parameterised pytest suites in CI, and produced API-driven compliance reports that simplified audits.
- Developed enterprise web applications in Django and ASP.NET MVC for more than 2,000 users across Saint-Gobain sites, with SQL Server and Active Directory SSO.
- Set up GitLab CI/CD pipelines (Python, YAML, Docker, webhooks) that cut deployment time by 40%, with logging and monitoring to catch production bottlenecks.
- Wrote Python automation (Pandas, NumPy, pyodbc, regex) for data processing, file handling and third-party API sync, reducing manual effort by 50%, and built ETL jobs from SQL Server to PostgreSQL.
- Integrated SQL Server, ServiceNow CMDB and REST APIs through Talend ETL workflows, and documented models, APIs and deployments for new developers.
- Built JavaScript portlets for the Liferay intranet and Power Platform apps for customer satisfaction and incident escalation. Worked on-site in Paris in 2023 and ran internal Python automation trainings.

Python Developer | Aarush Group of Companies, Remote **Dec 2020 - Dec 2021**

- Developed REST APIs in Django and Flask for financial data analysis and integrated third-party payment gateways.
- Maintained ETL pipelines and Pandas/NumPy financial models that fed pricing and risk decisions, processing more than 1M records a day.
- Deployed services on AWS (EC2, Lambda, S3) and automated the surrounding cloud workflows, improving processing efficiency by 45%.

INTERNSHIPS

Web Developer Intern | University of Mumbai Health Centre, Mumbai **Nov 2019 - Apr 2020**

- Built a patient management system with React, Node.js, Express, Socket.io and MySQL (doctor and receptionist panels, admissions, discharge, prescriptions, reports), with JWT-secured REST APIs.

Python Intern | Eduvance, Mumbai **Jun 2018 - Jul 2018**

- Automated inventory tracking and Excel data management with Python scripts, and built a web scraper for market data.

HACKATHONS

- **Nerve, AI Engineers Day hackathon, Mumbai (co-hosted by OpenAI, Peak XV, Activate), May 2026, 6 hours, solo:** six-agent autonomous SRE incident commander with an offline demo mode and a React dashboard.
- **FlexiBrain, FlexiLoans hackathon at Mumbai Tech Week, May 2026, 6 hours, solo:** multi-agent MSME loan underwriting from bank statements, with a rule-first plus Gemini Flash transaction classifier and circular-transaction detection.
- **Network Tool, ERR_404 Hackathon, Mar 2021, 48 hours:** one Python tool for packet sniffing, MAC spoofing prevention, email alerts and switch configuration.
- **Mowe, InOut 7.1 hackathon, Nov - Dec 2020:** browser-based motion and animation editor; React front end, Node.js backend and Java microservices.
- **Smart India Hackathon 2020, Hardware Edition, Winner (AICTE, 5-day build, certificate Feb 2021):** team system measuring and predicting crowd density across parts of India, with a camera module, a Python density-count backend and a React dashboard.
- **Smart India Hackathon 2019, Software Edition, Winner (AICTE, 36-hour finale at IIT-BHU Varanasi, Mar 2019):** team build for real-time car accident reporting in insurance disputes, with a Flutter simulator app and a React dashboard.

EDUCATION

Bachelor of Engineering, Computer Engineering, Vidyalankar Institute of Technology, Mumbai Jul 2017 - Nov 2020
Diploma in Computer Technology, Vivekanand Education Society's Polytechnic, Mumbai Jul 2015 - Jun 2017

AWARDS AND CERTIFICATIONS

Awards: Outstanding Performance Award (2022) and BEST@INDEC badges (2022 - 2024), Saint-Gobain INDEC.
Certifications: Python for Data Science (2024), React Native (2022), Node.js (2020), Version Control with Git (2020).