

AMIT SHIVPRATAP SINGH

AI & Automation Engineer • Generative AI & LLM Orchestration • Cloud & DevOps

Bengaluru, Karnataka, India • [LinkedIn](#) • [GitHub](#) • [Fiverr](#)

PROFESSIONAL SUMMARY

AI Engineer and full-stack developer with hands-on experience building LLM-powered applications, ML pipelines, and workflow-automation systems that deliver measurable business impact. At Philips, architected enterprise automation that saved an estimated 3,000 man-hours and cut transition workflow times by ~40%. Strengths across Python, JavaScript, distributed systems, and cybersecurity, with a track record of shipping end-to-end solutions and leading engineering teams.

TECHNICAL SKILLS

Generative AI & Agents: LLMs, RAG, vectorless RAG, agentic AI, prompt engineering, LLM orchestration, context engineering, multi-agent workflows, model evaluation, citation-grounded generation

Microsoft AI & Automation: Copilot Studio, Azure AI, Microsoft Foundry, Power Platform, Power Automate, Dataverse, SharePoint, Outlook automation

Cloud & DevOps: Azure, AWS, Docker, CI/CD, Git, GitHub, Azure DevOps, Linux, cloud automation, observability, secure configuration, private endpoints

Software & Data: Python, JavaScript, React.js, Node.js, REST APIs, SQL, MySQL, MongoDB, data pipelines, full-stack development, system design

Security & Quality: Cybersecurity, vulnerability assessment, secrets management, secure API design, software validation, agile delivery, human review workflows

PROFESSIONAL EXPERIENCE

Automation & AI Engineer

Apr 2026 - Present

Philips • Bengaluru, India

- Design and deliver end-to-end AI-driven automation solutions that streamline enterprise processes, reduce manual effort, and support measurable business impact.
- Build LLM-orchestrated and agentic workflows using Copilot Studio, Azure services, Dataverse, SharePoint, Power Automate, and human-in-the-loop review patterns.
- Lead Project Pulse (PIPO), a portfolio and phase-in/phase-out management application replacing manual Excel-based processes and establishing a unified data foundation for product teams - saving an estimated 3,000 man-hours.
- Develop secure cloud-native integrations using private endpoints, managed configuration, service connections, secrets-management practices, and controlled draft/approval workflows.
- Contribute to RAG, vectorless retrieval, evaluation, prompt engineering, AI governance, and scalable enterprise knowledge-automation initiatives.

SDE-1 / AI Engineer (Intern)

Jun 2025 - Apr 2026

Philips • Bengaluru, India

- Developed ML-driven automation tools and scalable software solutions to improve healthcare and business processes.
- Supported AI-enabled validation and workflow automation, including requirements-to-document generation concepts and intelligent assistant experiences.
- Applied full-stack engineering, cloud services, DevOps, software validation, and security practices in an enterprise environment.

Freelance Full-Stack Developer (Level 2 Seller)

Sep 2020 - Jun 2025

Fiverr • Remote, India

- Delivered 100+ web application development and AI based solutions for global clients, progressing to Level 2 Seller through sustained delivery and customer satisfaction.
- Built and maintained responsive websites, full-stack applications, WordPress solutions, integrations, and deployment workflows.

Head Web Developer / Technical Team Lead

Aug 2023 - Jun 2025

Team Centinels, SRMIST • Hybrid, India

- Led technology initiatives and mentored a student engineering team across frontend, backend, project planning, and delivery.
- Directed development of practical digital solutions, coordinated technical execution, and fostered collaborative problem-solving and continuous learning.

Back-End Developer

Oct 2022 - Dec 2023

Directorate of Student Affairs, SRMIST • Chennai, India

- Developed backend functionality for student-facing digital platforms and contributed to the SRM Milan website ecosystem.

SELECTED PROJECTS

KairosEye: AI-Powered API Monitoring & Anomaly Detection System

Jan 2025 - Apr 2025

Python, REST API, ML, Distributed Systems

- Engineered a full-stack AI monitoring system for distributed environments, establishing a robust data foundation for cross-environment log correlation and real-time alerting.
- Developed ML-based anomaly detection modules to analyze response times and error rates, delivering predictive insights that forecast system failures and enhance architectural reliability.

HackFusion: AI-Enhanced Autonomous Cybersecurity Toolkit

Jan 2025 - Mar 2025

Bash, OpenAI API, Python, CLI Development

- Built an autonomous, AI-driven command-line interface (CLI) toolkit integrating the OpenAI API to provide intelligent, real-time workflow recommendations for vulnerability scanning.
- Automated complex post-exploitation workflows, allowing the AI agent to dynamically assess environments and suggest optimal security configurations without human intervention.

MagicAI: AI-Powered Content Generation SaaS Platform

Sep 2024 - Nov 2024

React.js, Node.js, MongoDB, OpenAI API

- Drove the full software development life-cycle of a scalable SaaS application, integrating NLP models to automate generation of high-quality marketing copy and code snippets.
- Designed a secure, accessible user interface with robust subscription governance (Stripe API) and standardized database schemas.

AuditX: Smart Contract Audit System

Jul 2024 - Aug 2024

PHP, JavaScript, MySQL, Web Security

- Defined requirements and drove development of a web-based automated auditing system, enabling secure uploads and detailed vulnerability assessments.

EDUCATION

B.Tech, Computer Science and Engineering — CGPA 9.5/10

Aug 2022 - May 2026

SRM Institute of Science and Technology · Chennai, India

PUBLICATION

SYSTEM DESIGN: The Internal Guide (Volume 1)

Jul 2026

Amazon (Author)

- Authored an illustrated engineering guide on recurring patterns in scalable systems - databases, caching, replication, messaging, payments, security, DevOps, big data, and design trade-offs. [View publication](#)

CERTIFICATIONS & LEARNING

- Building with the Claude API - Anthropic (Mar 2026)
- Model Context Protocol: Advanced Topics - Anthropic (Mar 2026)
- Microsoft Promptathon / Copilot Studio Hackathon - Participant
- Ongoing learning across AI engineering, cloud automation, CI/CD, cybersecurity, LLM orchestration, and agentic systems.

AWARDS & LEADERSHIP

- Manager Recognition Award, Philips - Execution & Performance, for automation initiatives including CMM PIPO automation.
- 3rd Place, HackNova 24-hour Hackathon (2024).
- Leadership as Technical Team Lead, Head Web Developer, Class Representative, and club founding head; organised hackathons and technical events.

LANGUAGES

English - Native / bilingual proficiency

German - Professional working proficiency