

PRATIKSHA ANNASO SHINDE

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PROFILE SUMMARY

Software Engineer with 3+ years of experience in designing, developing, and deploying scalable web applications, REST APIs, AI-driven automation, and cloud-native deployments. Skilled in **Python, Django, testing, and API integration, and database management (PostgreSQL)** with hands-on experience in **web scraping, automation, Generative AI and cloud deployment (AWS, Azure)**. Adept at working with cross-functional teams, streamlining processes, and integrating APIs to produce high-performance, scalable, and secure applications. Excellent problem-solving abilities, rapid learning, and leadership traits in a team. Passionate about applying Generative AI and Agentic AI to solve real-world business problems.

TECHNICAL SKILLS

Languages:	Python, C, C++, Bash, JavaScript
Cloud Platforms:	Microsoft Azure, AWS, DigitalOcean
AI & Automation:	OpenAI API, LangChain, RAG, Vector Databases (basic),
Cloud & DevOps:	Terraform, Azure DevOps, Bitbucket Pipelines, Prometheus, Grafana, Azure Monitor Git, Bitbucket, Azure Pipelines
Systems & Networking:	Linux, Windows Server, DNS, NAT Gateway, IP Routing
Web Tech:	HTML5, CSS3, JavaScript, Django, Flask, FastAPI, DRF
Databases:	PostgreSQL, SQLite, SQL
ERP/Enterprise:	Odoo v15/v16, ServiceNow, Jira, Microsoft Teams
Tools:	VS Code, PyCharm, Sandbox, FTP, Google Colab, pgadmin, SSMS

EDUCATION

B. Tech in Electronics & Telecommunication Engineering
Dr. J.J. Magdum College of Engineering, Jaysingpur | 2018 – 2022 | 81.39%

EXPERIENCE

Advanced Risk Analytics Pvt Ltd, Pune | Risk Analyst

Oct 2025 – Present | Pune

- Studied and analyzed **Hurricane & CAT modeling concepts** using internal documentation and training resources.
- Performed **spatial analysis using Python, GeoPandas & QGIS** to create circle geometries and compute line intersections.
- Extracted and processed **KML event data**, converted to CSV, and mapped Event IDs using multiple parsing techniques.
- Worked on **CAT bond loss automation**, matched Excel & SQL data, filtered records, and generated updated datasets.
- Installed and configured **SQL Server & PostgreSQL**, executed queries, handled schema updates, and resolved DB errors.
- Developed **dynamic SQL & stored procedures**, and supported debugging for reported issues and enhancement requests.
- Set up **GitHub version control**, created repositories, configured token-based authentication, and pushed code via VS Code.
- Provided **knowledge transfer to team members** on Git workflows including cloning, branching, and merge process.
- Integrated secure APIs using **MSAL Token authentication** and implemented App Registration for CRM connectivity.
- Created **workflow diagrams and updated Analyzer documentation** to represent business logic and automation workflow.

ExpertIT Data Informatics LLP, Pune | Software Engineer

Aug 2022 – Aug 2025 | Pune

Software Development:

- Built and deployed AI-driven workflows using Python, LangChain, and OpenAI for real-world automation.
- Integrated AI with no-code platforms (n8n, Zapier – basic exposure) to automate routine business tasks.
- Researched vector databases & RAG pipelines to enable knowledge retrieval for AI agents (basic familiarity).
- Developed asynchronous APIs with FastAPI & asyncio for scalable, I/O-bound services.
- Designed and developed end-to-end Django web applications, implementing models, views, templates, and REST APIs.

- Created dynamic frontends using Django Templates & Jinja2, with reusable template blocks, inheritance, and form rendering.
- Implemented CSRF tokens, session management, input validation, and role-based access control for secure web applications.
- Developed class-based and function-based views, form validations, and authentication workflows.
- Built RESTful APIs using Django REST Framework (DRF) with serializers, viewsets, and API documentation via Postman.
- Utilized Pandas, NumPy, and Matplotlib for data analysis, reporting, and visualization in Python projects (financial reports, analytics dashboards).
- Developed custom Python functions and reusable modules for file parsing (CSV, JSON, Excel), data transformations, and automation.
- Pack Created pytest-based unit & integration tests for APIs and AI pipelines.
- Followed secure coding practices (CSRF, XSS, SQL Injection prevention, OAuth2/JWT-based authentication).
- Documented APIs, workflows, and system modules on Teams/SharePoint to ensure knowledge sharing and smooth onboarding for future colleagues.
- Implemented web scraping scripts using BeautifulSoup and Requests to extract structured data.
- Designed, developed, and customized Odoo ERP modules using Python, XML, QWeb, OWL (JavaScript) for domains like Finance, Property, Shipping, and Marketing.
- Performed database operations (PostgreSQL) including schema design, query optimization, and migrations.

Team Collaboration & Support:

- Participated in Agile ceremonies (daily stand-ups, sprint planning, retrospectives).
- Collaborated with cross-functional teams (QA, DevOps, Frontend, Product Owners).
- Provided technical documentation for developed modules and APIs.
- Mentored new team members in Python, Odoo development, and Git workflows.

Cloud & Deployment (Python Projects):

- Deployed Django applications on AWS EC2 (Windows IIS/Linux) with HTTPS, NAT gateways, and DNS configuration.
- Maintained CI/CD pipelines (Azure DevOps) for smooth software delivery.
- Monitored applications with Azure Monitor and optimized infrastructure performance.
- Designed and maintained CI/CD pipelines using Azure DevOps, reducing deployment time by 60%.
- Experience deploying and managing cloud workloads on Azure and AWS.
- Automated infrastructure provisioning with Terraform on Azure.
- Supported on-call operations, performed root cause analysis, and led upgrades/migrations.
- Applied best practices in cloud security, access control, and infrastructure cost optimization

PHN Tech | Web Developer Intern

Jan 2022 – Jun 2022 | Remote | Pune

- Developed responsive web interfaces using HTML, CSS, and JavaScript.
- Integrated APIs and dynamic forms into user-facing pages.
- Applied UX best practices for web performance and accessibility.
- Collaborated using Git for version control and Agile methodologies.

PROJECTS

1 - Hotel Booking Web Application (Development & Deployment)

Project Overview: Developed and deployed a full-stack hotel table booking application using Django, enabling customers to view, book, update, and cancel restaurant reservations. Designed for responsive access and hosted on AWS EC2 for high availability.

Responsibilities:

- Developed backend (Python/Django, SQL) and responsive frontend (HTML, CSS, Django templates).
- Implemented CRUD operations for reservations and optimized database performance.
- Deployed on AWS EC2 (Windows Server 2020) with secure HTTPS access.
- Configured server & deployment pipeline for smooth production rollout.
- Applied security best practices and ensured 24/7 uptime via public DNS.

2 – AI-Powered Knowledge Assistant (POC)

Tech: Python, LangChain, FastAPI, ChromaDB, OpenAI GPT-4

- Designed a Retrieval-Augmented Generation (RAG) system for internal document Q&A.
- Built FastAPI backend to expose endpoints for embedding, querying, and chat responses.
- Integrated with ChromaDB vector store for long-term memory.

- Implemented async tasks to handle multiple queries concurrently.
- Outcome: Reduced document search & FAQ resolution time by 70% in internal testing.

3 – Odoo ERP Projects Portfolio (Finance, Shipping, Marketing & Property Management)

Project Overview:

Designed, customized, and deployed Odoo ERP solutions for finance, procurement, shipping, mortgage marketing, and property management. Delivered end-to-end development, third-party integrations, and workflow automation to meet diverse business needs.

Responsibilities:

- Designed and customized Odoo ERP solutions based on client requirements.
- Developed modules (Python, XML, QWeb, OWL JS) and integrated multi-platform APIs (WhatsApp, Facebook).
- Managed PostgreSQL for high performance and data integrity.
- Built responsive Odoo 17 interfaces with booking forms, blogs, and social media links.
- Automated quotations, invoices, and recurring workflows.
- Performed secure, zero-downtime data migrations from legacy systems.
- Created custom reports & workflows, maintained documentation, and provided post-deployment support.

CERTIFICATIONS (Udemy)

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| • AZ-900: Microsoft Azure Fundamentals | • - AZ-104: Microsoft Azure Administrator (2025) | • Google Cloud Professional Cloud Architect |
| • AI Engineer Professional Certificate & AI Automation | • AWS Certified Solutions Architect Associate (SAA-C03) | • AWS Certified DevOps Engineer – Professional (DOP-C02) |
| • Deploy Infrastructure in the Cloud using Terraform | • - CI/CD with Azure DevOps Pipelines (Udemy) | • Python Full Stack Developer (JBK INSTITUTE PUNE) |

INTERESTS

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|---------------------|------------------|-----------------------------|----------|
| • Cloud Engineering | • DevOps Tooling | • Open-Source Contributions | • Travel |
| • Cyber Security | • Book Reading | | |