Dheeraj Sain | Software Development Engineer

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SUMMARY

An outcome-driven engineer with over 2 years of experience in **Software Development** and building **AI/LLM-powered applications**. I specialize in **Python, Django Framework, DevOps, and CI/CD,** focusing on development and automation. Successfully redesigned architectures that **reduced manual effort by 60%** and **created solutions for different products**. Strong background in Python, Kubernetes, Django, and serverless technologies.

TECHNICAL SKILLS

Programming Languages: Python, HTML, CSS, JavaScript, SQL, Bash scripting
Frameworks & Tools: Django, Flask, Streamlit, Docker, PostgreSQL, MongoDB
Operating System: Linux (Ubuntu & RedHat), macOS, Windows
Cloud: AWS (Preferred), GCP, Azure
AI/ML/DL/LLMs/GenAI: AI, ML , DL , Transformer , LLMs , AI Agents , Agentic AI , MLOps Foundations, MCP.
DevOps/IaC/CI/CD: DevOps , CI/CD , Infrastructure as Code (IaC) , Terraform , Ansible, Saltstack, Docker, Kubernetes, GitHub Actions , SonarQube.

EXPERIENCE

Thinknyx Technologies LLP   July 2023 – Present
Project Engineer

- Led project planning & architecture, integrating LLMs, Kubernetes APIs to create "KubeBuddy" - an AI powered Kubernetes management dashboard built with Django, Kubernetes APIs and LLMs - including documentation, website, CI/CD, SonarQube workflows, and full AI pipeline.
- Automated end-to-end training certification lifecycle by refactoring legacy Python code using Pandas, building a Flask UI for non-technical users, and later migrating the workflow to AWS Lambda + S3 triggers → removed VM dependency & eliminated manual involvement of tech team.
- Built an internal AWS cost-governance dashboard using boto3 that surfaced idle EC2/volumes across regions, enabling trainers & admins to terminate unused resources → reducing avoidable cloud cost.
- Designed and optimized AWS architectures of LoanDigit project including staging & prod separation, multi-env MongoDB cluster deployments, cost optimization, and serverless micro-service functions using Lambda.
- Delivered expert content for the company's Ed-Tech offerings, contributing to multiple Udemy courses and in-house training programs across Python, GenAI, AI ecosystem, Git/GitHub, Kubernetes, Docker, and Streamlit - and conducted hands-on workshops on Git/GitHub and Docker for learners & professionals.

Iktara Data Sciences   January 2023 – June 2023
Data Science Intern

- Collaborated in Agile sprints with cross-functional teams to deliver features on time and improve workflows.
- Developed user-friendly interfaces using HTML, CSS, JS & Bootstrap improving customer satisfaction scores by 18%.
- Leveraged Python, Django, MongoDB, and Selenium to scrape and organize data from multiple mall websites, using proxies where necessary.
- Stored data in MongoDB and developed a Django web app to display insights, enabling easy access to analytics on mall performance and metrics.

PROJECTS

KubeBuddy (AI-powered Kubernetes Dashboard)
- Led project planning & architecture, integrating LLMs, Kubernetes APIs to create an AI-powered dashboard.
- Developed the platform using Django and implemented CI/CD pipelines with GitHub Actions and SonarQube workflows.
- Built full AI pipeline and website documentation, enabling end-to-end automated management of Kubernetes clusters.

Tech Stack: Django, Python, Gemini, Ollama, Kubernetes APIs, GitHub Actions, SonarQube, Docker, HTML, CSS, JS

RAG Data Analyst Chatbot
- Built a data-driven chatbot capable of processing CSV datasets and answering user queries using CSVAgent.
- Integrated OpenAI API, Gemini API, Ollama, and Streamlit to provide accurate, real-time insights from structured data.
- Automated backend data processing, enabling fast and reliable decision-making support for users.

Tech Stack: Python, CSVAgent, OpenAI API, Gemini API, Streamlit, Ollama

Training Certification Automation
- Modernized legacy certificate automation using Python & Pandas, reducing execution time and manual effort by **60%**.
- Built Flask-based web UI for non-technical users, enabling CSV/Excel uploads and automated certificate generation.
- Migrated workflow to AWS Lambda + S3 triggers, eliminating the need for an always-on VM and improving scalability.
- Automated completion notifications via email, improving turnaround and transparency for trainers/admins.

Tech Stack: Python, Pandas, Django, AWS Lambda, S3, SMTP, Linux

AWS Dashboard
- Developed internal AWS cost-governance dashboard using Boto3, tracking EC2 instances, volumes, and other resources across regions.
- Enabled admins and trainers to identify and terminate unused resources, reducing unnecessary cloud spend.
- Built a simple interface for real-time monitoring and management of cloud assets.

Tech Stack: Python, Boto3, AWS EC2, S3, IAM, CloudWatch

EDUCATION

B S Anangpuria Institute of Technology and Management, Faridabad   **Aug2019-June 2023**
Bachelor of Technology in Computer Science & Engineering **(CGPA: 8.8 / 10)**
- Relevant Coursework: Data Science, Machine Learning, Deep Learning, Software Engineering Principles, SDLC.
- Artificial Intelligence (Python), Full Stack Development (Django Framework).
- Core member of Coding Club
- Captain of Football and Kabaddi Team

Achievements

- Awarded "Rockstar Rookie" in my first year at Thinknyx Technologies.
- Contributed to 4+ Udemy courses as Course Instructor.
- Trained interns on Git, GitHub, DevOps fundamentals, Django, and Docker.