

NEELESH SRIVASTAVA

PYTHON AI ENGINEER



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SUMMARY

With more than 9 years of experience, a Dynamic DevOps Manager with a strong track record at Finoit Inc, leading teams in building scalable cloud infrastructure and secure system operations. Skilled in Linux Administration, Azure Cloud, DevOps automation, CI/CD, Python development, and AI-powered application development using Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), and LangChain. Experienced in building scalable backend services, integrating Generative AI solutions into enterprise applications, automating cloud infrastructure, and optimizing production environments.

TECHNICAL SKILLS

- Python
- Django
- Application Security
- Linux Administration
- RAG
- LLM
- Dev Tools & IDEs:
VS Code, Pycharm,
Google Colab (cloud env),
Antigravity, Devin
- Database management
- CI/CD Implementation
- Web Application Architecture
- Azure Services
- Llama
- Semantic Search
- AI Agents
- FAST API
- REST API
- Python AI Development
- Cross-Functional Collaboration
- Front End Development
- Git Workflow
- Monitoring tools
- SSH
- Docker
- Ubuntu (LINUX) SME
- Jenkins actions
- Microsoft Entra ID (Azure AD)
- Azure Monitor, ManageEngine

PROFESSIONAL EXPERIENCE

Finoit Inc., DevOps Engineer

Jul 2019 - Present

- Managed Linux server operations, including system administration, shell scripting, monitoring, patching, and performance tuning.
- Configured and managed **Azure Active Directory (AAD)** for identity and access management, including **role-based access control (RBAC)**, **multi-factor authentication (MFA)**, and **secure single sign-on (SSO)**.
- Built and automated **CI/CD** pipelines for Django applications, streamlining deployments, reducing downtime, and ensuring seamless updates.
- Architected and managed **Infrastructure as Code (IaC)** using Terraform and Ansible for repeatable and reliable provisioning.
- **Deployed and monitored** containerized Django applications using **Docker** and Kubernetes, optimizing resource utilization and scalability.
- Developed and maintained Django applications for over 2 years, using MySQL as the primary database, with a focus on performance, maintainability, and secure design.
- Architected scalable backend systems and **RESTful APIs**, integrating **AI-powered** services built on LLMs, LangChain, and RAG architectures for intelligent automation and enterprise knowledge retrieval.
- Monitored and optimized databases (**MySQL, PostgreSQL**) with backup strategies, replication, and query performance tuning.
- Implemented logging, monitoring, and alerting solutions using **ManageEngine**, Prometheus, and the ELK/EFK stack to ensure system reliability.
- Enforced security best practices across infrastructure and applications, including **Azure Security Centre policies, network security groups (NSGs), data encryption, and secure networking**.

- Identified and resolved performance bottlenecks in Django applications, improving load times and user experience.
- **Collaborated with cross-functional teams**, including front-end developers, designers, and product managers, to deliver production-ready web applications.
- Managed code repositories using **Git**, ensuring **clean, well-documented code** and coordinating feature development through branches and pull requests.
- Provided **24/7 operational support, troubleshooting production issues**, performing **root cause analysis**, and implementing preventive measures.
- Designed and integrated **LLM-powered solutions** into enterprise applications using LangChain, enabling intelligent document search, conversational AI, and workflow automation.
- Built **Retrieval-Augmented Generation (RAG)** pipelines by integrating vector embeddings with enterprise knowledge bases to improve the accuracy and relevance of AI-generated responses.
- Developed **AI-enabled REST APIs for chatbot** and knowledge-assistant applications using Python, FastAPI, and Django REST Framework.
- Integrated open-source LLMs including **Llama and Hugging Face Transformers** for document analysis, question answering, and semantic search use cases.
- Implemented prompt engineering strategies to **improve response quality, reduce hallucinations**, and optimize model performance.
- Worked with embedding models and vector search techniques to build scalable semantic retrieval systems.
- Collaborated with development and infrastructure teams to **deploy AI applications using Docker, Kubernetes, and Azure-based infrastructure**.

Jetking Infotrain Limited , System Administrator/DevOps

Feb 2018- Jun 2019

- Handled **Windows server/Linux admin**: setup, patching, monitoring, and troubleshooting.
- Experienced with multiple Linux distros: **Ubuntu, CentOS, Red Hat, Mint OS, and Light Ubuntu**.
- Built and maintained web apps with Django and Python, and a few conventional in-house websites.
- Designed backend systems and RESTful APIs.
- Managed **PostgreSQL/MySQL with backups, replication, and tuning**.
- Tuned system and app performance, resolving bottlenecks.
- Created automated tests and debugged issues.
- Set up **load balancers**, proxies, and caching for scalability.
- Managed **Git repos, branching, and collaborative workflows**.
- Converted the institution's needs into scalable technical solutions.
- Delivered maintenance, support, and root cause analysis.

Certination Solution and Services, IT Analyst

Sep 2016 - Nov 2017

- **Analyze Business Requirements**: Translate business needs into technical specifications.
- **System Design and Development**: Design and develop custom solutions and software tools.
- **Data Analysis and Reporting**: Analyze data trends and create supporting reports.
- **Process Optimization**: Develop automated solutions to streamline operations.
- **Technical Support**: Provide technical support and troubleshoot software/ hardware issues.
- **Software Testing**: Test new systems and features to ensure quality.
- **Project Collaboration**: Work with cross-functional teams to implement IT solutions.
- **Documentation**: Maintain detailed documentation of systems, processes, and code.
- **User Training**: Train end-users on new systems and technologies.
- **Security Management**: Implement and monitor security protocols.
- **Continuous Improvement**: Stay updated on industry trends and suggest improvements.

Certination Solution and Services, Training Executive

Jul 2016 - Sep 2016

- **Develop Curriculum**: Create training modules for Raspberry Pi and embedded systems.
- **Conduct Workshops**: Lead hands-on sessions and practical training on Raspberry Pi.

- Create Materials: Prepare tutorials, guides, and project examples.
- Assess Skills: Evaluate trainee progress through assessments and projects.
- Provide Support: Offer technical assistance during training.
- Mentor Projects: Guide trainees through real-world Raspberry Pi projects.
- Teach Tools: Instruct on software tools and programming languages.
- Collect Feedback: Gather feedback to improve training programs.
- Stay Updated: Keep up with industry trends and advancements.
- Collaborate: Work with institutions to align training with industry needs.

RESEARCH PUBLICATION

Research paper (**as the First author**) on **Machine Learning** is Published in "International Conference: Applications of Intelligent Systems", at APPIS 2019, La Palmas de Gran Canaria, Spain, European Union. The technology used: Python, Machine Learning, Artificial Intelligence

Link to publication: <https://dl.acm.org/citation.cfm?id=3309783>

Paper ID: ISBN:978-1-4503-6085-2

PROJECTS

- HRMS
- Learning Management System
- Invoicing Application
- Web Scraper
- All-in-One Portal
- Gesture Control OpenCV-based project
- CRM Portal
- Chat App using OpenAI key and integrated with other MCP environment

EDUCATION

Dr. A.P.J. Abdul Kalam Technical University

Bachelor of Technology

Computer Science & Engineering

Jul 2016

Rani Laxmi Bai Memorial Senior Secondary School

Science, IT

Mar 2011

AWARDS

- 10th NIIT APTITUDE TEST
- **Chairman's Medal** for outstanding academic performance
- **Gold Medallist** in the whole college under Academic performance

CERTIFICATIONS

- AWS Cloud Practitioner Essentials
- Complete Machine Learning with R studio -ML
- Python and Django FullStack developer Bootcamp
- Computer Architecture Beginner to Advanced

LANGUAGES

- English - C2 (Professional Proficiency)
- Hindi - Native
- French - A1 (Currently pursuing A2)