

# ABHISHEK POKHREL

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## PROFESSIONAL SUMMARY

DevOps-focused engineer with hands-on experience in cloud infrastructure, containerization, and full-stack development. Proficient in AWS, Docker, Terraform, and CI/CD practices with demonstrated ability to build scalable applications using Django, React, and Angular. Strong foundation in infrastructure automation, monitoring solutions, and modern development workflows.

## TECHNICAL SKILLS

- **Cloud & DevOps:** AWS (EC2, S3, VPC), Docker, Terraform, Vagrant, CI/CD, Prometheus, Grafana
- **Programming Languages:** Python, JavaScript/TypeScript, Bash/Shell Scripting, YAML/JSON
- **Frameworks & Tools:** Django, Django REST Framework, React, Angular, NestJS, Apache
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Version Control & Collaboration:** Git, GitHub, Agile methodologies, Technical Documentation

## PROFESSIONAL EXPERIENCE

### Backend Development Intern

August 2024 – Present

*Spark Workshop, Lalitpur, Nepal*

- Engineered RESTful APIs using Django and Django REST Framework, implementing industry best practices for scalable backend architecture and achieving efficient data processing workflows
- Containerized applications using Docker and deployed to AWS infrastructure, gaining practical experience in cloud service configuration, EC2 instance management, and production deployment strategies
- Implemented machine learning clustering algorithms to optimize data categorization and enhance problem-solving efficiency in production environments
- Delivered technical presentations at daily stand-ups, collaborating with senior engineers and incorporating feedback to improve code quality and system design

## TECHNICAL PROJECTS

### Travomind – AI-Powered Travel Platform

August 2024

*Technologies: Angular, NestJS, MongoDB, OpenAI API, Vercel*

- Architected and developed full-stack travel assistant platform integrating OpenAI GPT API for intelligent itinerary generation and conversational recommendations
- Designed RESTful backend with NestJS featuring optimized MongoDB queries for destination data, user preferences, and real-time chatbot interactions
- Built responsive Angular frontend with dynamic components for destination discovery, trip planning, and AI-powered travel guidance
- Implemented CI/CD pipeline using GitHub and Vercel for automated testing and zero-downtime deployments

### FinTrack – Expense Tracker Application

November 2024

*Technologies: Django, React, Docker, PostgreSQL*

- Developed full-stack financial tracking application with Django REST API backend and React frontend, implementing secure JWT-based authentication and role-based access control
- Created interactive data visualization dashboards with charts and filtering capabilities to enable data-driven financial insights
- Containerized application using Docker and Docker Compose, establishing multi-container orchestration for frontend, backend, and database services
- Authored comprehensive technical documentation covering architecture, API endpoints, and deployment procedures for streamlined maintenance

**Multi-VM WordPress Deployment Infrastructure**

**November 2024**

*Technologies: Vagrant, Apache, MySQL, WordPress, Virtual Networking*

- Automated multi-VM infrastructure provisioning using Vagrant with isolated WordPress and MySQL instances
- Configured Apache virtual hosting and established secure inter-VM networking using private IP addressing for database communication
- Implemented MySQL security hardening and database user management following industry best practices

**EDUCATION**

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**Bachelor of Science in Computer Science and Information Technology**

**April 2022 – Present**

*Patan Multiple Campus (Tribhuvan University), Kathmandu, Nepal*

**Pre-University Education (GPA: 3.35/4.0)**

**Graduated April 2021**

*Viswa Niketan Secondary School, Kathmandu, Nepal*