

NAVEEN KUMAR GUDIMILLA

Cloud Solutions Analyst

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SUMMARY

Cloud and DevOps Engineer with around 4 years of experience in designing and operating multicloud, AI-augmented platforms. Delivered AI-powered workflows via OpenAI API that lifted operational efficiency by 30–35% and engineered containerized applications deployed through GitHub Actions, shortening release cycles by 40%. Combined Terraform and Kubernetes on AWS and Azure to build scalable, secure environments, driving measurable business value.

SKILLS

Cloud Platforms & Infrastructure

AWS (EC2, S3, RDS, IAM, VPC, CloudWatch, Lambda, SNS), GCP (Compute Engine, Cloud Storage, BigQuery), Azure (VMs, AKS, Functions, Blob Storage), Firebase (Auth, Firestore, Functions), HashiCorp Vault, Prometheus, Grafana, Splunk, Loki, IAM

DevOps & Containerization

Infrastructure as Code, Kubernetes (EKS, AKS), CI/CD Pipelines, CloudFormation, GitHub Actions, ARM Templates, Azure DevOps, Terraform, GitLab CI, DevSecOps, Jenkins, Docker, Helm

AI/ML & Automation

Prompt Engineering, Conversational AI, Python Automation, Power Automate, OpenAI API, LangChain, AI Agents, UiPath

Programming & Backend

Python (Flask, FastAPI, Pandas, NumPy, boto3), JavaScript, TypeScript, REST API

Frontend & Web Development

Responsive Design, React, Figma, HTML, Vite, CSS, SEO

Data Management & BI

Data Cataloging (Glue Crawlers), Google Analytics, ETL Workflows, QuickSight, Snowflake, AWS Glue, Power BI, Tableau, Athena, SQL

EXPERIENCE

IT Supervisor (Part-Time Internship) | Community Matters 2 (NGO Company) Mar 2025 – Present, Poughkeepsie, NY, USA

- Led hybrid cloud operations across AWS and Azure, provisioning EC2, S3, VMs, and AKS clusters via Terraform IaC, supporting 150+ internal users and media production pipelines, achieving 99.5% uptime.
- Architected AI-driven content pipelines with OpenAI API and LangChain in Python, automating generation of outreach materials and reducing manual effort by 33% while exposing REST APIs for downstream systems.
- Engineered data collection pipelines using Python and AWS Glue, feeding Power BI and CloudWatch dashboards for realtime program analytics accessed by 20+ stakeholders.
- Implemented IAM policies and automated compliance checks via Terraform across AWS and Azure, embedding DevSecOps controls that reduced security incidents by 40%.
- Collaborated with frontend team to build a React/TypeScript portal exposing REST APIs on Flask, enabling secure staff-parent communication for 500+ users.
- Orchestrated CI/CD pipelines using GitHub Actions and Jenkins to automate video asset processing, cutting release cycle from weekly to daily and storing outputs in S3.

Technology and Data Solutions Intern | Hudson Valley Concierge Services (HVCS) Apr 2024 – Jan 2025, Poughkeepsie, NY, USA

- Designed AI automation agents with LangChain, OpenAI API, and Python, integrating with RESTful services to accelerate client request handling by 40%.
- Containerized microservices with Docker, orchestrated on Kubernetes (EKS), and delivered via GitHub Actions and GitLab CI pipelines, shrinking release cadence to biweekly.
- Architected multicloud IaC using Terraform for AWS (EC2, S3, IAM) and Azure resources, creating reusable modules that provisioned 30+ environments on demand.
- Engineered Alexa Skill using AWS Lambda, API Gateway, and S3, exposing a secure REST API for voice-driven client interactions.
- Built responsive React/TypeScript frontend with Vite, integrating REST APIs, and applied SEO best practices, boosting organic traffic by 32%.
- Implemented observability stack with CloudWatch metrics and Power BI dashboards, delivering data-driven insights to senior stakeholders.

Project Billing Specialist – BU Operations | Virtusa – Google (Client) Mar 2021 – Dec 2022, Hyderabad, Telangana, India

- Oversaw billing workflows for Google Cloud services, coordinating with cross-regional finance teams and ensuring SLA compliance for \$15M annual spend.

- Developed automated Power BI and Tableau dashboards using SQL and Python, cutting reporting latency by 35% and enabling datadriven decisions.
- Engineered ETL pipelines in SQL and Python, loading data into Snowflake for financial analytics, supporting 10+ business units.
- Automated OrderToCash processes with UiPath and Power Automate, integrating REST API calls to ERP, saving 20% manual effort.
- Coordinated with global stakeholders across US, EMEA, APAC, delivering monthly forecasts and aligning on datadriven KPIs.
- Delivered data-driven insights for leadership decision-making and operational improvements.

PROJECTS

AI Social Productivity Platform (DevOps Dashboard)

Jan 2025 – Present

- Developed a full-stack application with: Task management system, AI assistant/chat integration, user profiles and public routing.
- Implemented Firebase backend (Auth, Firestore, Functions).
- Designed architecture for AI-native collaboration platform: task sharing, collaboration, public feed, AI-powered matching.
- Focused on scalable, modular frontend architecture (React + Vite).

AWS Cloud Infrastructure Deployment & Automation

Mar 2025

- Designed and implemented a comprehensive AWS architecture incorporating EC2 instances, S3 storage, and IAM role-based security.
- Configured secure network infrastructure with VPC, security groups, and implemented monitoring using CloudWatch.
- Integrated EC2 instances with S3 storage using boto3 Python SDK for automated data processing workflows.
- Designed secure cloud architecture using: EC2, S3, IAM, VPC.
- Implemented network security + monitoring (CloudWatch).
- Automated workflows using Python (boto3).
- Demonstrated Infrastructure as Code concepts.

Netflix Data Analytics Pipeline on AWS

Feb 2025

- Developed a serverless data pipeline using Amazon S3, AWS Glue, Amazon Athena, and Amazon QuickSight to analyze a Netflix dataset.
- Automated data cataloging with Glue Crawlers, performed SQL queries in Athena, and built interactive dashboards in QuickSight.
- Built a serverless data pipeline using: Amazon S3, AWS Glue (ETL), Athena (querying), QuickSight (visualization).
- Automated data ingestion and analysis workflows.
- Delivered interactive dashboards for insights.

QueryAgent: AI-Powered SQL Query Assistant

Jan 2025

- Developed an AI-powered SQL query assistant using LangChain, OpenAI API, and Python to automate SQL query generation and database interactions.
- The tool enables users to pose business-related questions in plain English, which are automatically converted into SQL queries, providing real-time insights and supporting data-driven decision-making without requiring SQL knowledge.
- Built an AI-powered system that converts natural language 'SQL queries.
- Enabled non-technical users to query databases and retrieve insights.
- Integrated LLM pipelines with structured databases, showcasing real-world AI application.

SQL Query Agent (GitHub Project Enhancement)

Jan 2025

- Extended AI agent capabilities with: better query handling, structured output, improved prompt pipelines.
- Focused on AI + backend system integration.

DegreeWorks Academic Management Prototype

May 2024

- Developed a user-friendly academic management prototype in Figma for GPA tracking and credit audits, designed for ease of access across devices.
- Focused on responsive design and user-centered principles, enhancing student engagement and course tracking.
- Designed a student academic tracking system prototype.
- Focused on: GPA tracking, credit audit visualization, responsive UX design.

Alexa Skill – HVCS Voice Assistant

Jan 2024

- Developed voice-based service system using: AWS Lambda, S3.

- Enabled users to interact with concierge services through voice commands.

EDUCATION

Master of Science in Information Technology | Marist College

2024

Master of Business Administration (MBA) – Finance | Osmania University

Present