**RAMROHITH GADI**

**Generative AI & Python Developer**

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**Summary:**

Results-driven Senior Software Engineer with 4 years of experience specializing in Data & AI solutions. Expert in developing and deploying scalable RAG pipelines, LLM-powered applications, and cloud-native services on GCP. Proficient in Python, LangChain, LangGraph and Fast API, with a strong foundation in web development using Django. Seeking to leverage expertise in building innovative and efficient AI-driven solutions.

**Experience:**

**Incedo - Senior Software Engineer**

* **Network Genie - Agentic [**Feb 2025 - Present**]**
  + Developing an AI-powered network diagnostics system utilizing LangGraph agents for diagnosing and troubleshooting network related issues.
  + Designed and implemented a multi-agent architecture, including a planner agent for workflow structuring and an orchestrator/supervisor agent for execution.
  + Built and integrated Fast API-based tools for fetching and processing network data also developed custom agent tools.
  + Leveraging React agents to enhance user interaction and network diagnostics.
* **NRB-Infobot [**Dec 2024 - Feb 2025**]**
  + Engineered a scalable RAG pipeline for semantic search of diverse files (PDF, HTML, MP4) from GCS buckets, automated by Airflow.
  + Implemented data processing: BigQuery-driven metadata management, extraction, parent-child chunking, vector embedding, and Cloud Run indexing.
  + Developed APIs for vector-based search and real-time embedding, enhancing information retrieval.
  + Enabled rapid, context-aware data access, significantly improving data accessibility.

**Buzzworks - Software Developer**

* **Flexydial Application [**June 2024 - Nov 2024**]**
  + Addressed and resolved UI and backend logic issues to significantly improve system stability and user experience.
  + Implemented customized filtering for enhanced report management.
  + Designed and implemented new features and requirements across both backend and frontend systems, ensuring seamless integration and enhanced functionality.
  + Identified, diagnosed, and resolved recurring issues and edge cases by employing advanced debugging techniques and best practices, improving overall system reliability and performance.
  + Developed and documented a robust API for bulk updates, enabling efficient and scalable data modifications while ensuring clear and comprehensive documentation for ease of use and integration.
* **Customer On-Boarding Application [**May 2024-June 2024**]**
  + Designed a tailored authentication model suitable for application requirements, including implementation of Simple-JWT Token based authorization.
  + Developed a highly responsive single-page application using React and Material UI.
  + Integrated APIs to facilitate seamless data interaction from front-end to backend.
  + Engineered role-based dashboards and modular customization logic for enhanced user experience.
  + Implemented a robust User Access Management system to enable dynamic user permissions.
  + Leveraged React web hooks to efficiently consume APIs and manage component states.

**TCS - System Engineer**

* **British Telecom Project [**Jan 2022 – April 2024**]**
  + Developed and maintained applications using Python Django, following agile methodologies and best practices.
  + Collaborated with project managers, technical leads, and other developers to understand user requirements, design solutions, and deliver high-quality code.
  + Used class-based views to organize web application views and logic, promoting code reusability and clarity.
  + Conducted code reviews, unit testing, integration testing, and debugging to ensure software reliability and performance.
  + Implemented automated end-to-end testing using Selenium and Playwright, ensuring comprehensive test coverage and robust application performance across different browsers and devices.
  + Achieved a 95% customer satisfaction rating and a 90% code quality score for the delivered solutions.
  + Reduced the development time by 30% and the bug rate by 40% by implementing best practices and code optimization techniques.
  + Built RESTful APIs with Django REST framework to expose data models as JSON endpoints, using serializers to validate and transform the data.
* **Boeing Project [**April 2021 – Dec 2021**]**
  + Wrote complex SQL queries and stored procedures for data extraction and manipulation and loading.
  + Developed and optimized package and procedures and reduced the runtime of the batch job by 30%
  + Created a function to provide grants to the users based on the role being passed.
  + Used SQL loader technology in the procedures to load the data from flat files.
  + Used the following for some of my sub-tasks - Apache Hive, Scoop, Oozie and Linux

**Technical Skills:**

* **Programming Languages:** Python, PL/SQL
* **Frameworks:** Django, Django REST Framework, Fast API, Playwright
* **Web Technologies:** HTML, CSS, Bootstrap, JavaScript, jQuery
* **Database Systems:** Oracle DB, PostgreSQL, Cloud SQL, MySQL, BigQuery
* **Cloud Services:** Azure, Google Cloud
* **Tools and Platforms:** Visual Studio, VS Code, Git, Cloud Run, Airflow, Jira, Postman, Adobe Campaign, Power BI etc.

**Soft Skills:**

* Communication Skills
* Analytical Thinking
* Teamwork

**Certifications:**

* **Google Cloud Platform – Associate Cloud Engineer**
* **Microsoft - Power BI Data Analyst**
* **Python and Django Full Stack Web Developer Bootcamp** from Udemy

**Achievements:**

* Received **Elevate Wings Award** for **Articulation** at **TCS**
* Received **Elevate Wings Award** for **Google Cloud** at **TCS**

**Projects:**

* **ChatterBox [Personal Project] –** Real-time Chat Application - Chatterbox is a real-time chat app that allows users to chat with other registered users in different chatbox spaces. Access it here: <https://rgadi555.pythonanywhere.com/>
* **VirtuGram [Personal Project] -** A sleek and intuitive online video chatting application that connects people across virtual rooms with ease. Leveraging the powerful Agora SDK, it offers high-quality, real-time video and audio communication. GitHub Repo – <https://github.com/RamRohith007/VirtuGram/>

**Education:**

* **Bachelor of Technology in Computer Science** from JNTUA College of Engineering, India (2016 – 2020)
  + Relevant courses: Data Structures and Algorithms, Operating Systems, Database Management Systems, Software Engineering, Web Development, etc.