

YAANA MUTHAMMA P

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PROFESSIONAL SUMMARY

Junior Software Developer with a strong backend foundation in Python, FastAPI, and both relational and NoSQL databases. Experienced in designing secure, role-based REST APIs and integrating authentication and authorization into production systems. Currently engineering AI-driven backend features using MCP, LangGraph, LangChain, and Gemini LLM, with an emphasis on workflow automation, clean architecture, and scalable API integration.

SKILLS

Programming: Python, SQL

Backend Development: FastAPI, Pydantic, Pydantic v2, REST APIs, SQLAlchemy, API Integration, Microservices

Databases: MongoDB, MySQL, PostgreSQL, PyMongo, Database Design

Authentication & Access Control: JWT, Role-Based Access Control (RBAC), Role Mapping, Authorization

AI & LLM Development: AI Agents, Gemini LLM, LangChain, LangGraph, MCP (Model Context Protocol)

Architecture & Design: Clean Architecture, Repository Pattern, Dependency Injection, Workflow Automation

Tools & Technologies: Docker, Git, Linux, JSON

WORK EXPERIENCE

Wyzmindz Solutions Pvt. Ltd.

07/2025 - Present

Junior Software Developer

- Design and maintain backend REST APIs using Python, FastAPI, Pydantic, and SQLAlchemy, improving code maintainability and API consistency across services.
- Engineer database-driven features across MySQL and MongoDB using PyMongo, streamlining data access and reducing manual data-handling effort across application modules.
- Implement JWT-based authentication and propagate authenticated user context across workflows, strengthening application security and access control.
- Design role mapping and RBAC features that enforce granular permissions, improving data security and controlling feature-level access.
- Debug and resolve issues across backend APIs, database logic, and application features, improving system reliability and reducing recurring defects.
- Engineer MCP tools that expose backend functionality to AI-driven workflows, enabling AI agents to interact directly with production services.
- Orchestrate multi-step workflows using LangGraph, enabling AI agents to autonomously select and run tools and reducing manual workflow intervention.
- Integrate Gemini LLM through LangChain to add natural-language capabilities to backend services, improving usability for end users and developer productivity.

PROJECTS

Syntheta – AI-Powered BI Dashboard Platform

- Architected the FastAPI backend for an enterprise BI dashboard platform that generates dashboards directly from natural-language input, reducing manual dashboard configuration.
- Engineered MCP tools, LangGraph orchestration, and LangChain-based Gemini LLM integration to automate AI-driven dashboard creation.
- Implemented authentication and role mapping with MongoDB and MySQL integration, improving data security and access control for dashboard data.

AutoDS AI – Autonomous Data Scientist Platform

- Designed an autonomous AI platform that ingests datasets from CSV, SQL databases, MongoDB, and REST APIs, simplifying data onboarding across formats.
- Architected a multi-agent pipeline covering data validation, cleaning, EDA, feature engineering, model training, evaluation, and explainability.
- Engineered the backend with FastAPI, SQLAlchemy, Pydantic v2, PostgreSQL, and Docker, applying Clean Architecture with dependency injection and the repository pattern to improve maintainability and scalability.
- Automated generation of PDF reports containing model insights and explainability, streamlining end-to-end ML workflows.

n8n DataBridge – FastAPI & MongoDB Integration

- Engineered a FastAPI-based data bridge for n8n workflows, enabling flexible, runtime-configurable MongoDB connectivity through REST APIs.
- Developed MongoDB collection discovery APIs using PyMongo and Pydantic, supporting both authenticated and unauthenticated connections.
- Automated data movement between MongoDB and ClickHouse via n8n workflows, reducing manual data-transfer effort and simplifying integration.

EDUCATION

Bachelor of Engineering (B.E.) in Information Science and Engineering

Vidyavardhaka College of Engineering • GPA: 7.6

Mysuru • 01/2025

Pre-University College

Vijaya Vittala PU College • GPA: 89.16%

Mysuru • 01/2021

Xth Standard (CBSE)

SMS Academy of Central Education • GPA: 87.5%

Aramery • 01/2019