SWAYAM YADAV

J +919348941529 — ■ swayam.2956work@gmail.com — 🛗 linkedin.com/in/swayam-yadav — 🞧 github.com/swayam-yadav

Education

Kalinga Institute of Industrial Technology, Bhubaneswar, India

Bachelor of Technology in Computer Science & Engineering

St. Joseph College, Bhalwari, Nepal

Senior Secondary School (12th)

Oct 2021 - May 2025

CGPA: 7.22/10

Oct 2018 - April 2020

CGPA: 3.22/4

Skills

- Languages: Python, TypeScript, Bash

- Frameworks: Flask, FastAPI, Pydantic, React, AGNO

- Databases: MongoDB, PostgreSQL, Neo4j, Milvus, Amazon RDS

- Cloud & DevOps: AWS (Lambda, Textract, API Gateway, S3, Amplify), Docker, Git, GitHub Actions, CI/CD

- APIs & Tools: REST API design, Amazon Ads API, Postman

- AI & NLP: OpenAI GPT, Anthropic Claude, Google Gemini API, prompt engineering

- Testing & Methodologies: Pytest, Agile/Scrum, Git branching

Work Experience

Remote

SDE Intern — SkillRank

Nov 2024 - May 2025

New York, USA

GovTech AI — MPUD Generation Platform

- Engineered backend services in FastAPI/Python to drive an LLM-based chatbot for automated MPUD creation.
- Processed 100%+ planning PDFs weekly with AWS Textract, PyMuPDF, and pdfplumber, achieving 95% data accuracy.
- Expanded COA rule engine with **Pydantic** models, boosting approval consistency by 30%.
- Cut database load by 80% through batched metadata retrieval and in-memory LRU caching.

GovTech AI — MPUD Generation Platform (Agentic Approach Prototype)

- Designed and implemented an end-to-end AGNO-based AI workflow to automate MPUD condition generation, improving code organization by cleanly separating agent logic from core workflow.
- Developed a schema-aware toolkit to integrate LLM agents with Neo4j, boosting maintainability by isolating ai
 agent definitions and modifications in a dedicated module.
- Leveraged AI-driven validation loops for deduplicated, context-aware condition recommendations, enabling seamless scalability—new agents can be added without cluttering the main workflow.
- Orchestrated a modular multi-agent pipeline, producing CI/CD-ready approval reports with markdown formatting.

FASST Real Estate Website

- Created 15 reusable HTML/CSS components for a **Flask**/Python application that served 200+ daily users, reducing front-end development time for subsequent features by 15%.
- Automated ingestion of SIRS PDFs via AWS Textract and Google Gemini API, reducing manual effort by 80%.
- Architected a MongoDB schema for real-time property lookups; exposed REST endpoints for the frontend.

AdTech Analytics Dashboard

- Built backend ETL pipeline with **AWS Lambda** and **Amazon RDS**, ingesting daily ad metrics (impressions, clicks, etc.).
- Integrated the Amazon Ads API to automate report downloads, eliminating manual pulls entirely.
- Exposed RESTful APIs consumed by a React dashboard, improving data-freshness to under 5 minutes.
- Implemented retry logic and CloudWatch alerts, reducing pipeline failures by 90%.

Projects

Neo4j Expert Agent Integration - LLM-Powered Graph Database Assistant

GitHub

- Built an AGNO-based intelligent agent using Claude/OpenAI LLMs and Neo4j, processing 500+ natural-language prompts per day into optimized Cypher queries.
- Developed schema-aware dynamic querying and automatic schema generation in **Python**, reducing schema drift by 40%.
- Leveraged the **AGNO framework** for node and relationship management with duplication avoidance—ensuring 99% data integrity across 1,000+ graph entities.

EXTRACURRICULAR ACTIVITIES

Active Member of Obstruction Dance Crew, Nepal

Jan 2018 - Present

- Contribute to choreography and performance planning