Shubham S ambavane

senior software engineer

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# Career Summary

Experienced Gen AI Engineer specializing in **Generative AI, NLP**, and **Azure OpenAI**. Skilled in building AI-powered solutions using **GraphRAG, LangChain, CREW ai**. Proficient in **RAG pipelines, Azure AI Search, Redis, and Node.js** for scalable systems. Passionate about the latest technologies.

# Technical Skills

Gen AI | Nodejs | python | Postgres | AWS | Azure open AI services | Git Version control.

# Work Experience

Senior software engineer | Capgemini September 2023 - Present

* Designed and implemented **Gen AI architecture** using **GraphRAG**, **RAG**, **LangChain, CREW AI, Azure OpenAI, O1 Reasoning Model, and AI Foundry**.
* Applied **NLP techniques** (embeddings, tokenization, entity recognition) to enhance AI solutions.
* Leveraged **Azure OpenAI services** for model deployment, fine-tuning, and prompt engineering.
* Optimized Advanced RAG pipelines with **Azure AI Search**, **Blob Storage**, and **embedding models** for enhanced accuracy and reducing retrieval latency by 50%.
* Built and deployed **Python & Node.js** AI solutions with **Redis** and **vector databases.**
* Containerized AI applications using **Docker** for scalable deployment.

Software engineer | Capgemini March 2022 - September 2023

* Developed scalable **REST APIs** using **Node.js**, **Express.js**, and **Sequelize ORM** with **PostgreSQL**.
* Integrated **AWS** services like **Cognito, SNS, SMTP** and **SES** for authentication and notifications.
* Optimized code complexity and improved performance through efficient database queries and caching mechanisms.
* Implemented unit test cases with **Jest**, achieving **90%+ test coverage**.

# PERSONAL PROJECTS

* Developed **Market analysis** and **Strategy builder** solutions using **CREW AI**, focusing on **fundamental and technical analysis**.

# Education and Certification

Bachelor’s degree | MGMCET, Mumbai University 2020

AWS Cloud Practitioner 2022