

# Jonathan Gomes

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## ABOUT ME

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Aspiring AI/ML Engineer with a strong foundation in machine learning, deep learning, and generative AI. Skilled in backend development, API engineering, and workflow automation, with hands-on experience deploying scalable applications on cloud platforms. Passionate about building intelligent systems, leveraging data-driven insights, and optimizing solutions using modern AI frameworks and Dev-Ops practices.

## EDUCATION

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### Fr. Conceicao Rodrigues College of Engineering

*B.E in Computer Engineering*

- **Coursework:** Data Science, Machine Learning, Deep Learning, NLP, Software Engineering

## PROJECT

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### Tube Talk

- Web app & Chrome extension that converts YouTube videos into summaries, Q&A, quizzes, and insights.
- Enhances learning by extracting key takeaways with AI-powered interaction.
- **Tools:** Next.js, Fast API, LangChain, Google Gemini, AssemblyAI, FAISS.

### WebCrawler MCP Server

- MCP Server with Firecrawl Integration – Developed an intelligent MCP server that enables structured web scraping and content extraction using the Firecrawl API.
- Extracts company info, documentation summaries, and general webpage content with schema-driven parsing for AI/agent workflows.
- **Tools:** Python, FastMCP, Firecrawl API, Pydantic, Dotenv, Logging.

### BedrockPDF-Chat

- Built a RAG system on AWS Bedrock for querying PDFs with semantic search
- Used Amazon Titan Embeddings and FAISS; deployed via AWS S3 and Elastic Beanstalk
- **Tools:** AWS Bedrock, Titan Embeddings, FAISS, S3, LangChain, Claude

### Long Term Memory AI Agent

- Created a context-aware chatbot with SQLite for persistent conversation history
- Leveraged Pydantic AI and OpenAI GPT-3.5 Turbo for personalized responses
- **Tools:** Pydantic AI, OpenAI, SQLite, Python

## CERTIFICATIONS

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- **AWS Certified AI Practitioner**, AWS
- **AWS Academy: Cloud Architecting**, AWS Academy
- **AWS Academy: Microservices & CI/CD**, AWS Academy
- **AWS Academy: Web Application Builder**, AWS Academy

## SKILLS

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- **Languages:** Python, Java (basic), C++ (basic)
- **Libraries:** TensorFlow, PyTorch, Scikit-learn, LangChain, LangGraph, MLflow, OpenCV, Pydantic AI, Pandas, NumPy
- **Frameworks:** FastAPI, Flask, Django, Next.js, Streamlit, Pytest, LangFlow, AutoGen, Unsloth
- **Tools:** Git, VS Code
- **Cloud:** AWS, Vercel, Supabase, Docker, n8n