Joseph Daniel Kumarapu

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Professional Summary

Full-Stack AI Engineer with 2+ years at Dew Software building intelligent, scalable applications using Python, JavaScript, and AWS. Experienced in deploying end-to-end AI systems powered by LLMs (OpenAI, LLaMA), LangChain, RAG pipelines, and vector databases. Adept at integrating AI with modern full-stack architectures (React/Next.js, Node, Flask, FastAPI) to deliver impactful products such as JobUp (AI Resume Optimizer), Investment Research Agent, and CloudatHand. Strong focus on AI-driven automation, cloud-native development, and secure system design.

Core Skills

- **Languages & Frameworks**: Python, JavaScript, Java, TypeScript, React, Next.js, Flask, FastAPI, Django
- **AI/ML & LLMs:** OpenAI SDK, LLaMA, LangChain, Hugging Face Transformers, Retrieval-Augmented Generation (RAG), Pinecone/Weaviate (vector DBs)
- **Machine Learning**: Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn
- Cloud & Databases: AWS (Lambda, S3, EC2, DynamoDB, Cognito), Supabase, PostgreSQL, MySQL
- **DevOps & Tools:** Docker, Kubernetes, Jenkins, GitHub Actions, REST APIs, GraphQL
- **Other Expertise:** Secure Authentication, Role-based Access, Data Visualization, CI/CD Automation, Agile/Scrum

Education

M.S. Information Systems – New Jersey Institute of Technology, Newark, NJ (2022 – 2024)
B.Tech. Electronics & Communication Engineering – Gitam University, India (2018 – 2022)

Certifications

	IBM	Python for Data Science, AI & Development
	UNIVERSITY OF LONDON	Management Skills for International Business
	MACQUARIE University	Professional Development

Professional Experience

Full-Stack AI Engineer

Dew Software – Fremont, CA | Oct 2022 – Present

Built and deployed **end-to-end AI-driven full-stack applications** by integrating **Python, React/Next.js, Node.js, and AWS** with advanced **LLM frameworks (LLaMA, LangChain, RAG pipelines, Hugging Face, vector DBs)**. Partnered with product managers and DevOps to deliver secure, scalable, and user-centric platforms.

- **JobUp (AI Resume Optimizer):**

  o Engineered an **AI-powered career platform** with a **FastAPI backend** and **React/Next.js frontend**, integrating **LangChain + OpenAI APIs** for resume rewriting.

  o Designed **RAG pipelines with Pinecone vector DB** to analyze resumes against job descriptions, improving recruiter match scores.

  o Implemented **secure authentication with Supabase** and a cloud-native deployment on **AWS (Lambda + S3)**.

  o Delivered a clean, responsive **frontend dashboard** where users upload resumes, view scorecards, and download ATS-friendly documents.

- **Investment Research Agent:**

  o Built a **Python CLI-based research assistant** integrating **LLaMA + Hugging Face transformers** for **equity market analysis**.

o   Architected the backend to automate **data ingestion, model inference, and structured report generation**.

o   Improved usability with **modular prompt chaining and data export features (CSV/PDF)**.

o   Reduced manual analysis time for financial teams by **30%**, delivering consistent and explainable AI-driven insights.

● **CloudatHand (AI-Powered File & Analytics Platform):**

o   Designed a **Next.js full-stack application** with **Supabase backend** for **secure file storage, retrieval, and access control**.

o   Integrated an **AI chatbot** powered by **LangChain and RAG workflows**, enabling contextual Q&A on uploaded files.

o   Implemented **interactive analytics dashboards** with **Chart.js/Recharts**, allowing users to visualize file insights in real time.

o   Delivered a **responsive cyberpunk-themed UI**, role-based authentication, and optimized backend APIs for high-volume file handling.

Projects
https://github.com/JosephDaniel2810