

# Animesh Dash

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## Professional Summary

AI Engineer with 2 internships and 3 shipped production AI products including Braible (enterprise AI chatbot) and CardMax AI (Indian-market RAG optimiser). Specialises in Retrieval-Augmented Generation (RAG) pipelines, multi-modal Large Language Model (LLM) integration (OpenAI GPT-4, Google Gemini 2.5, Anthropic Claude), Prompt Engineering, and full-stack AI deployment (Python, FastAPI, React 18). Seeking remote/Hyderabad AI Engineering roles.

## Experience

**AI Engineer Intern (Lead Developer, Braible)** | BRAVENT LLC | Virginia, USA (Remote) May 2025 – July 2025

- **LLM Orchestration:** Architected Braible (bravent.us/braible/), a multi-modal AI chatbot platform supporting 4+ LLM providers (OpenAI, Anthropic, Gemini, Mistral) with automated failover, and shipped an enterprise embeddable widget; reduced system latency by **30%** via parallel async API handling and request batching
- **Multi-modal AI:** Integrated speech-to-text / text-to-speech pipelines and custom AI-driven video analyzers achieving **95%+ accuracy**, driving a **40% uplift** in user engagement
- **RAG & Analytics:** Engineered Retrieval-Augmented Generation (RAG) backend (Flask + MongoDB) with dynamic API key management and a real-time React heatmap dashboard, accelerating batch webpage analysis by **2x**

**Technology Intern** | Bharat Heavy Electricals Limited (BHEL) | Hyderabad, India May 2024 – July 2024

- **Predictive Monitoring:** Collaborated on Remote Monitoring & Data Services (RMDS) for industrial turbines; applied real-time data analysis and anomaly detection on sensor streams, identifying **40% more** software inefficiencies and cutting downtime by **15%** via automated SMS trip-alerts
- **Internal Tooling:** Built a Python/Flask KPI dashboard adopted by 2 engineering departments, reducing manual data retrieval effort by **80%**

## Projects

**CardMax AI – RAG-Powered Credit Card Intelligence Platform (India)** cardmax-amber.vercel.app

- **RAG Architecture:** Designed an end-to-end Retrieval-Augmented Generation (RAG) pipeline ingesting bank PDFs, JSON feeds, and SQL databases; deployed vector embeddings with Google Gemini 2.5 Flash for context-aware reward optimization across HDFC, SBI, Axis, and ICICI Bank
- **LLM Integration:** Implemented semantic search with high-speed embeddings enabling sub-second card recommendations; built scalable data-ingestion workflows for dynamic travel-portal pricing and reward multipliers using Python, PostgreSQL, React, and Vercel

**MealMom – Multi-modal AI Nutrition & Meal Planning Platform** mealmom.pro

- **Multi-modal AI:** Integrated Clarifai vision AI for **95%+ accuracy** photo and voice food recognition across 25+ nutrition metrics, enabling automated grocery-list generation
- **Full-Stack Build:** Engineered a React 18 + TypeScript + Node.js progressive web app (PWA) with a Three.js 3D dashboard and a MongoDB + JSON Web Token (JWT) backend supporting offline mode

**ScoreTravel – Conversational AI Multi-City Travel Planner**

- **NLP & Agentic Workflow:** Built a React 19 + FastAPI platform using OpenAI GPT-4 and SpaCy Natural Language Processing (NLP) to generate crowd-avoidance multi-city itineraries, reducing user planning time by **70%**
- **Data Processing:** Integrated 8+ social-media and geolocation REST APIs with PostgreSQL to cluster 500+ point-of-interest cities, achieving **90%+ user-preference matching accuracy**

## Technical Skills

**AI & GenAI:** Retrieval-Augmented Generation (RAG), Large Language Models (LLMs), OpenAI API (GPT-4), Google Gemini 2.5, Anthropic Claude, Mistral, LangChain, Prompt Engineering, Vector Embeddings, Semantic Search, NLP (SpaCy), Multi-modal AI, AI Agents

**Languages:** Python, JavaScript, TypeScript, SQL, C, C++, Java, HTML/CSS

**Frameworks:** FastAPI, Flask, React 18/19, Node.js, Express.js, REST APIs, Three.js, Material UI

**Databases & Infra:** MongoDB, PostgreSQL, Redis, AWS, Docker, CI/CD, Linux, Vercel, Git, JWT, OAuth

## Education & Leadership

**University of South Florida (US Tier-1 State University)** | B.S. CS | GPA: **3.65/4.0** Aug 2022 – May 2026

- Merit Scholar – \$48,000 STEM scholarship; coursework: Data Structures, Algorithms, Database Design
- **Technical Director**, Google Developer Student Club – led AI & full-stack workshops, managed 10+ student projects, and mentored 20+ STEM underclassmen via the BioMedical Engineering Society
- **Financial Director**, Market Masters – oversaw budget and algorithmic investment strategies for student investment club