

Danish Mohammad

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Summary

Software engineer focused on building AI powered applications and data driven systems. Combines strong backend engineering fundamentals with practical experience shipping user facing products in production environments. Experienced in translating complex technical concepts into reliable, maintainable systems that solve real business problems. Seeking to contribute to high impact AI initiatives where model capability meets product execution.

WORK EXPERIENCE

Journela

May 2025 - Present

Software Engineer

- Developed and deployed a RAG-based document intelligence system integrating PDF extraction, vector storage, and LLM inference for secure, context-aware querying
- Used Claude AI to accelerate full stack development, supporting prototyping, code generation, and iterative refinement for production-ready applications
- Partnered with clients such as Shell, consolidating 200+ web pages into 75 SEO-optimized pages, boosting site performance by 60%
- Designed and developed responsive e-commerce applications with JavaScript, React, Vite, HTML, and CSS, implementing dynamic product interfaces, reusable components, and optimized layouts for cross-device performance.
- Built and deployed scalable backend services with Python, Django, and Flask, integrating RESTful APIs to streamline data workflows and JSON processing.
- Implemented CI/CD pipelines with GitHub Actions and Docker, reducing manual errors and ensuring consistent production-ready deployments.

Eshha Jewelers

Jan 2020 - Mar 2023

Software Engineer

- Built a custom inventory and order system using JavaScript, Python, and Postgres, streamlining tracking and fulfillment.
- Developed and maintained an e-commerce site with HTML5 and CSS3, applying SEO best practices to improve search visibility.
- Integrated Stripe and PayPal APIs, enabling fast, secure payment processing for online orders
- Automated catalog updates and image processing workflows with Python scripts and Linux/Bash tools, reducing manual overhead.
- Leveraged Git version control to manage code changes, support Agile workflows, and collaborate with stakeholders.

TECHNICAL & FINANCIAL SKILLS

- Programming Languages:** JavaScript, Python, HTML5, CSS3 (Sass), SQL, CAD/CAM, Linux/Bash
- AI & Data:** RAG, Vector Databases, Prompt Engineering, HuggingFace, ChromaDB, ClaudeAi, PyPDF2, pdfplumber
- Frameworks & Libraries:** React, Redux, Express, Node.js, Flask, Django, Vite, WaveSurfer.js
- Databases & Data Management:** Postgres, SQLAlchemy, REST APIs, SQLite
- Cloud & DevOps:** AWS S3, Docker, CI/CD, GitHub Actions, Render, Gunicorn
- Finance Domain:** Market data, trading workflows, financial analytics, portfolio logic

PROJECTS

AskRag- Financial RAG Document Assistant

- AI assistant that answers financial questions from PDF and Text files using RAG, vector search, and local LLM inference.
- Built a Retrieval Augmented Generation system that answers investment questions from Text files and PDFs using vector similarity search and local LLM inference
- Implemented PDF text and table extraction with pdfplumber and PyPDF2, converting unstructured filings into clean, chunked embeddings stored in ChromaDB
- Designed a Django API for document upload, session isolation, and query routing to prevent cross-document leakage between users
- Reduced hallucinations rate by 40% by constraining generation to retrieved context and tuning chunk size, overlap, and top-k retrieval strategy

Sol: Financial Data Processing & Trading App

- Real-time trading simulator with automated stock data updates, seamless market interactions, and scalable financial processing.
- Built a Python/Flask backend with SQLAlchemy and APScheduler integration, automating 15-minute delayed stock data updates and enabling high-performance API interactions with external financial sources (e.g., Polygon.io).
- Developed a React frontend with Redux, optimizing state management and asynchronous data handling for seamless, real-time stock updates without performance degradation.
- Deployed the application on Render, designing a scalable, resilient architecture with optimized database schemas, efficient data-fetching, and robust system reliability for millions of transactions.

Melody: Cloud-Based Music Streaming Platform

- Cloud-based music platform with custom audio playback, real-time browsing, and optimized media streaming for a seamless user experience.
- Built a React frontend with Hooks and Redux, enabling real-time music browsing and seamless, efficient state transitions.
- Developed a Flask backend with SQLAlchemy, creating scalable API endpoints and optimized database queries for fast, reliable music retrieval and playback; integrated WaveSurfer.js for on-demand audio streaming from AWS S3.
- Deployed the application on Render using Docker and Gunicorn, leveraging AWS cloud services for secure, scalable, and high-availability media streaming while optimizing system performance and user experience.

EDUCATION & CERTIFICATIONS

App Academy

Full Stack Software Engineer Certification

Binghamton University / NYCCT

Computer Science, Economic Studies