JINSO RAJ

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SUMMARY

Software Engineer with hands-on experience in full-stack development and AI-driven applications. Skilled in building RAG-based conversational AI systems with vector database integration and creating responsive, user-friendly web interfaces. Proven ability to integrate AI systems, optimize LLM prompts, and implement end-to-end solutions that bridge AI capabilities with practical web applications. Strong foundation in collaborative development practices and delivering scalable solutions in agile environments.

EXPERIENCE

Software Engineer Intern   **Nov 2025 - Present**
Socius Innovative Global Brains   *Thiruvananthapuram, India*

- Built AI-driven document retrieval and conversational chatbot systems leveraging Python, Flask, and cutting-edge language model technologies with vector database architecture.
- Engineered and refined prompts for large language model APIs to enhance response precision and overall output quality.
- Designed context-aware retrieval mechanisms using vector databases to power intelligent and scalable AI conversation systems.
- Worked alongside development teams utilizing Git for source control, engaged in peer code reviews, and maintained comprehensive technical documentation.

PROJECTS

Currency Converter Web App | *HTML, CSS, JavaScript*

- Built a responsive single-page application using HTML, CSS, and JavaScript, reducing page reloads by 100% through dynamic DOM updates.
- Integrated the Fetch API to pull 150+ global currency exchange rates from an external REST API, enabling real-time conversions.
- Implemented dropdowns supporting 50+ currency codes, with instant calculations (¡200ms response time) on client-side conversion.
- Optimized UI to handle 500+ conversion requests per session without performance lag.

TuneStream – Web-based Music Player | *HTML, CSS, JavaScript*

- Built a responsive single-page music player interface with sidebar navigation, playlists, and a persistent bottom playback bar.
- Implemented custom audio controls (play/pause, next/previous, seek bar, volume) using the HTML5 and JavaScript event listeners.
- Loaded and rendered albums and track lists dynamically from a local JSON file, simulating real playlist browsing.
- Added interactive features like hover effects, active state highlighting, and smooth transitions to enhance user engagement.

SKILLS

Programming Languages: HTML, CSS, JavaScript
Backend Frameworks: Flask Framework
Artificial Intelligence: Large Language Models (Llama), RAG
Data Analytics: Data Processing (NumPy, Pandas), Data Visualization (Matplotlib)
Databases: PostgreSQL, Chromadb
Frontend Frameworks: Bootstrap
Version Control: Git, GitHub
Tools: VS Code, Jupyter Notebook

EDUCATION

Bachelor of Technology, Information Technology   **Sep 2022 - May 2025**
Government Engineering College Barton Hill, Trivandrum

Diploma in ECE (Electronics and Communication Engineering)   **July 2019-Apr 2022**
Government Polytechnic College Neyyatinkara, Trivandrum

ACHIEVEMENTS

Runners-up in Dreamvestor, state level Ideathon (organized by ASAP Kerala & KSIDC)
3rd level in Luxathon 5.0, 24hr National Hackathon organized by IEEE