Vishnu S

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SUMMARY

Emerging Software Engineer with expertise spanning front-end development and AI-powered backend systems. Experienced in developing conversational AI applications and building responsive web interfaces. Skilled in implementing computer vision solutions, RAG-based document search systems, and real-time data synchronization. Adept at transforming technical requirements into functional applications with clean code, optimized performance, and seamless user experiences. Collaborative team player with proven ability to deliver results in fast-paced development environments.

EXPERIENCE

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

- Developing AI-driven backend applications using Python, Flask, LangChain, and LLaMA to build RAG-based document search and conversational chatbot systems with ChromaDB vector database integration.
- Building and optimizing prompts for LLM integration through REST APIs to improve retrieval accuracy and response quality in AI applications.
- Implementing end-to-end context retrieval mechanisms and vector database solutions to deliver scalable conversational AI systems.
- Collaborating with development teams using Git/GitHub for version control, code reviews, and technical documentation to support agile deployment processes.

PROJECTS

Face Recognition Attendance System
Technologies: HTML, CSS, JavaScript, Python, Flask, OpenCV, Firebase

- Led the front-end development of an automated attendance system utilizing facial recognition.
- Designed a responsive dashboard and real-time capture interface, increasing accessibility and efficiency by 20%.
- Integrated with Flask APIs and Firebase to support secure and instant data synchronization for attendance logging.
- Contributed to achieving over 90% recognition accuracy across varying lighting conditions during testing.

AlgoStats - LeetCode Metrics Dashboard
Technologies: HTML, CSS, JavaScript

- Built a web app that accepts a LeetCode username, fetches the user's public coding metrics, and displays dynamic profile cards and summary statistics.
- Dynamically rendered profile and metric cards into the DOM with vanilla JavaScript, enabling instant UI updates without page reloads.
- Implemented asynchronous network requests and added client-side error handling for invalid usernames and network failures.
- Improved UX with loading indicators, responsive layout, and interactive elements (search input, result highlighting).

TECHNICAL SKILLS

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

EDUCATION

B.Tech, Information Technology (IT) **Jul 2022 - May 2025**
Government Engineering College Barton Hill, Thiruvananthapuram, Kerala, India

Diploma, Computer Hardware Engineering **Jun 2018 - Oct 2021**
Government Polytechnic College Nedumangad, Kerala, India

VOLUNTEERING

Computer Society of India (CSI) **Feb 2022 - Mar 2024**
National Service Scheme (NSS) **Jul 2022 - Jul 2024**