VISHNU RESHAMWALA

📞 +1 805-506-1764 ✉ vishnu.reshamwala764@myci.csuci.edu 🔗 linkedin.com/in/v1shnucs
github.com/v1shnucs 🌐 v1shnucs.github.io

EDUCATION

California State University Channel Islands   Camarillo, CA
Master of Science in Computer Science (GPA: 3.9/4.0)   *Aug. 2023 – Dec 2025*
Relevant Coursework: Neural Networks, Pattern Recognition, Cloud Architecting, Advanced Database Systems, Artificial Intelligence, Machine Learning, Linux System Administration, Analysis & Design of Algorithms, Cyber Security

Bhagwan Mahavir College of Engineering and Technology   Surat, India
Bachelor of Engineering in Computer Engineering (CGPA: 7.85/10.00)   *Jul. 2018 – May 2022*

TECHNICAL SKILLS

Programming Languages: C/C++, Java, JavaScript, TypeScript, Python, ROS
Technologies: Git, Docker, CI/CD, AWS, GCP, Linux/Unix, HTML, CSS, SQL
Frameworks & Libraries: React, Node.js, Next.js, Express, NestJS, PostgreSQL, MongoDB, RESTful APIs, SerpApi
AI/ML: TensorFlow, Keras, PyTorch, NumPy, Pandas, Scikit-Learn, CNN, LangChain, FAISS, LLaMa, HuggingFace, Amazon SageMaker, OpenAI API, Gemini API, Ollama

PROJECTS

MS Thesis: Intelligent Human-Robot Interaction System | *ROS, OpenAI API, Docker, Python* | *In Progress*
- Developing an advanced human-robot interaction system using the Sawyer robot platform that combines computer vision for object detection and natural language processing for intuitive control
- Leveraging OpenAI's GPT-4o vision model for real-time shape and color recognition from images, enabling more generalizable and robust visual understanding
- Creating a containerized deployment using Docker and the ROS framework for the robot control system, supporting efficient development and reproducible deployment

Bink: AI Conversational Shopping Assistant | *React, Node.js, TypeScript, Gemini API, SerpApi*
- Developed "Bink," an AI-powered conversational shopping assistant enabling users to find products via natural language and image-based queries
- Integrated Google Gemini for multimodal (text and image) query understanding, AI-driven search keyword generation, and intelligent product recommendations
- Utilized SerpApi for real-time product searching from Google Shopping, with specialized modes for general and "thrift" (second-hand) items

TinderJob: Swipe-Based Job Matching | *React.js, NestJS, MongoDB, JWT Authentication, RESTful APIs*   ▶ Demo
- Developed an innovative job recruitment platform that revolutionizes hiring with a swipe-based interface for seamless recruiter-job seeker matching
- Features secure authentication, instant messaging, and automated interview scheduling

Retrieval-Augmented Generation (RAG) AI Agent | *LangChain, FAISS, LLaMa, HuggingFace Transformers*
- Architected an AI agent using Retrieval-Augmented Generation (RAG) to provide context-aware responses
- Implemented document loading, vector storage, and retrieval using LangChain and FAISS. Integrated LLaMa language model for generating context-aware responses
- Created an interactive command-line interface for real-time user queries, enhancing information retrieval from a local document corpus

EXPERIENCE

IT Help Desk Student Assistant   Aug. 2024 – Present
California State University Channel Islands   *Camarillo, CA*
- Provide comprehensive technical support to university community, resolving network, application, and A/V issues with 95% satisfaction rate
- Optimize service delivery through scripting automation and systematic problem-solving
- Manage incidents through TeamDynamix and collaborate with team to enhance operational efficiency

CERTIFICATIONS & ACHIEVEMENTS

Machine Learning by Stanford University (Coursera): Grade 100%   Mar. 2024
AWS Academy Graduate: Cloud Architecting   Dec. 2024
AWS Academy Graduate: MLU Machine Learning through Application   Dec. 2023
Winner: CSUCI Mission & AWS Hackathon Event   Sept. 2023
Active Member: Artificial Intelligence Club   Sept. 2023 – Present