

Vishnu Reshamwala

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EDUCATION

California State University Channel Islands, Camarillo, CA	Aug. 2023 - Dec 2025
Master of Science in Computer Science (GPA: 3.9/4.0)	
Bhagwan Mahavir College of Engineering and Technology, Surat, India	Jul. 2018 - May 2022
Bachelor of Engineering in Computer Engineering (CGPA: 7.85/10.00)	

RELEVANT COURSEWORK

Neural Networks, Pattern Recognition, Cloud Architecting, Advanced Database Systems, Artificial Intelligence, Machine Learning, Linux System Administration, Analysis & Design of Algorithms, Cyber Security

TECHNICAL SKILLS

- Programming Languages: C/C++, Java, JavaScript, TypeScript, Python, ROS (Robot Operating System)
- Tools/Technologies: Git, Docker, CI/CD, AWS, GCP, Linux/Unix
- Web & App Development: HTML, CSS, SQL, React, Node, Next.js, Express, PostgreSQL, NestJS, MongoDB, RESTful APIs
- Machine Learning & AI: TensorFlow, Keras, PyTorch, NumPy, Pandas, Scikit-Learn, Matplotlib, CNN, ResNet, LangChain, FAISS, LLaMa, HuggingFace, Amazon SageMaker, OpenAI API

PROJECTS

- MS Capstone: 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
- TinderJob: Swipe-Based Job Matching (React.js, NestJS, MongoDB, JWT Authentication, RESTful APIs) [Youtube]
- 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
- Yelp Clone (React, Express, PostgreSQL)
- Constructed a simplified Yelp clone with a React front-end, Express server, and PostgreSQL database
 - Developed a dynamic UI for seamless data interaction and imported 500,000+ Yelp entries into the database

EXPERIENCE

- IT Help Desk Student Assistant | *On-Campus* Aug. 2024 - Present
- Provided comprehensive technical support to university community, resolving complex network, application, and A/V issues while managing incidents through TeamDynamix with 95% satisfaction rate
 - Optimized service delivery through scripting automation and systematic problem-solving, collaborating with team members to streamline support processes and enhance operational efficiency

CERTIFICATIONS & ACHIEVEMENTS

- Machine Learning by Stanford University (Coursera) | Grades Achieved: 100% Mar. 2024
- AWS Academy Graduate - AWS Academy Cloud Architecting Dec. 2024
- AWS Academy Graduate - MLU Machine Learning through Application Dec. 2023
- CSUCI Mission & Amazon Web Services (AWS) Hackathon Event Sept. 2023
- Won the CSUCI, Mission & AWS Hackathon by collaborating with a team to solve technical challenges using AWS services in a gamified competition hosted by AWS, Mission, and CSUCI Computer Science
- Artificial Intelligence Club | Member Sept. 2023 - Present
- Active member of CSU Channel Islands university club centered around Artificial Intelligence topics