

# VISHNU RESHAMWALA

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## EDUCATION

### California State University Channel Islands

Master of Science in Computer Science (GPA: 3.9/4.0)

Aug. 2023 – Dec. 2025

Camarillo, CA

### Bhagwan Mahavir College of Engineering and Technology

Bachelor of Engineering in Computer Engineering (CGPA: 7.85/10.00)

Jul. 2018 – May 2022

Surat, India

## EXPERIENCE

### Software Engineer Intern

Linked2Pay

Aug. 2025 – Present

Oxnard, CA

- Delivered production-ready code for a WooCommerce payment extension for Linked2Pay under fast-paced development cycles, ensuring reliability and performance.
- Built automated JavaScript tests in Testim and executed manual test cases to streamline debugging.
- Managed the full bug lifecycle and performed end-to-end integration testing across CRMs, APIs, and payment solutions.

### Master's Thesis - Intelligent Human-Robot Interaction System

California State University Channel Islands (Advisor: Dr. Bahareh Abbasi)

Jan. 2025 – Present

Camarillo, CA

- Orchestrated a FastAPI bridge to connect legacy ROS1 with modern AI libraries, unlocking advanced LLM control capabilities on previously incompatible hardware.
- Improved the robot's physical reliability and visual accuracy by implementing a sensor-based retry logic for gripper failures and leveraging GPT-4o for superior object detection.
- Currently experimenting with various LLMs to optimize the trade-off between reasoning and latency, with the final system's usability to be validated through human trials.

## PROJECTS

### Bink: AI Conversational Shopping Assistant | [React](#), [Node.js](#), [Gemini API](#), [SerpApi](#), [Supabase](#) [Demo \(YouTube\)](#) | [Website](#)

- Engineered a novel AI shopping assistant from scratch, transforming a startup competition concept into a fully functional prototype with a multimodal, conversational search engine (text/image) and virtual try-on.
- Integrated Google Gemini to power a conversational experience, processing both text and image inputs for query understanding, AI-driven fashion recommendations, and search keyword generation.
- Utilized SerpApi for real-time product searching from Google Shopping, with specialized modes for general and "thrift" (second-hand) items.
- Built the full-stack architecture, securing the application with user authentication and API rate limiting (Supabase), and managed the successful deployment to Vercel (frontend) and Render (backend).

### TinderJob: Swipe-Based Job Matching | [React.js](#), [NestJS](#), [MongoDB](#), [JWT Authentication](#), [RESTful APIs](#) [Demo \(YouTube\)](#)

- 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](#), [Google Gemini](#), [HuggingFace Transformers](#)

- Architected a full-stack RAG system with a Next.js frontend and FastAPI backend, featuring a real-time chat interface for interactive document querying and uploads.
- Implemented the core AI pipeline, using LangChain and FAISS for semantic retrieval from PDFs and integrating Google Gemini to generate accurate, source-attributed responses.

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Java, JavaScript, TypeScript, Python, PHP, ROS

**Technologies:** Git, Docker, CI/CD, AWS, GCP, Linux/Unix, HTML, CSS, SQL, WordPress, Supabase, Vercel, Render

**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

## CERTIFICATIONS & ACHIEVEMENTS

**Machine Learning by Stanford University (Coursera)** [\[Verify\]](#): Grade 100%

Mar. 2024

**AWS Academy Graduate** [\[Verify\]](#): Cloud Architecting

Dec. 2024

**AWS Academy Graduate** [\[Verify\]](#): MLU Machine Learning through Application

Dec. 2023

**Winner:** CSUCI Mission & AWS Hackathon Event

Sept. 2023

**Active Member:** Artificial Intelligence Club

Sept. 2023 – Present