

OJASH GURUNG

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EDUCATION

Monroe University

Master's in Computer Science

Expected Graduation: May 2026

New Rochelle, NY

WORK EXPERIENCE

VeraAI Technologies Inc

Sep 2025 - Present

Founding Engineer | Acting CTO

Remote

- Lead technical direction for AI-powered remodeling platform serving \$527B market, managing 16-person team (3 Frontend, 5 Backend, 5 AI, 3 Marketing/Design) and making strategic architecture decisions with CEO and founders
- Architected unified FastAPI backend with Next.js frontend in containerized Docker environment, reducing developer onboarding time by 90% from 30+ minutes to 2 minutes
- Implemented RAG system using Weaviate vector database with 600+ catalog products, achieving 90%+ semantic search accuracy for product recommendations
- Trained AI model on 1,400+ NKBA (National Kitchen & Bathroom Association) guidelines to generate code-compliant room layouts output as structured JSON
- Built object detection pipeline achieving 80%+ accuracy using OwlVIT with bounding box detection for room analysis from user-uploaded photos and measurement inputs

Software Engineer Intern

Jun 2025 - Sep 2025

- Developed 13+ pages including 3-step onboarding flow and 5+ dialog components for team management and room measurement collection using Next.js and TailwindCSS
- Built 20+ Firebase Cloud Functions handling Stripe payment processing, email verification, and Mailchimp marketing automation, sending 400+ test emails across 12 different trigger events

SimplySoft Tech

Feb 2023 - Sep 2023

Software Engineer Intern

Kathmandu, Nepal

- Developed 20+ RESTful APIs for banking application including authentication endpoints, account management CRUD operations, transaction processing, and OTP verification for phone numbers using Spring Boot and PostgreSQL
- Optimized banking API query performance by 15% through strategic indexing on frequently queried PostgreSQL data fields
- Offloaded 70% of login and token validation requests from monolithic applications to dedicated auth services, improving system scalability

PROJECTS

SelfAI – Personal RAG-Based Knowledge Assistant (<https://selfai.tech>)

- Architected and deployed full-stack RAG chatbot enabling users to train AI assistants on personal documents (resumes, portfolios) and embed them as interactive widgets on websites
- Reduced average query response time by 87% from 15+ seconds to 2 seconds by optimizing RAG pipeline and integrating OpenAI ChatGPT API

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL

Frameworks: Spring Boot, FastAPI, Next.js, React, Express, TailwindCSS, Three.js, Konva.js

AI/ML: RAG, OpenAI GPT-4, OwlVIT, YOLOv8, DINO, Trellis, SlamR, NLP, Weaviate, Pinecone, Computer Vision

Databases: PostgreSQL, Firebase, Redis, MySQL, MongoDB, Vector Databases

Cloud/DevOps: AWS ECS, GCP, Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD