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Experience

IEEE Computational Intelligence Society LPU

Software Developer

Dec 2023 - Dec 2024

- Built scalable full-stack and ML-integrated applications using **MERN**, **Go** and **Streamlit** under IEEE CIS, contributing to **patents** and **research publications** as an **IEEE certified member**.

Projects

Social Media Platform Backend

Aug 2025 – Sep 2025

Node.js, Express.js, PostgreSQL, Cloudinary, Node-cron, Docker

- Built a scalable RESTful API with **Node.js**, **Express**, and **PostgreSQL**, implementing **authentication**, **follow system**, **content feed**, and **search** for a social media platform.
- Integrated **Cloudinary** for media uploads and **Node-cron** for scheduled post publishing, streamlining automated content workflows.
- Secured and optimized the backend with **JWT**, **Helmet**, and **Docker**, and validated endpoints using **Postman collections** for robust API testing.

Mini-CRM – Customer Campaign Platform

Apr 2025 - May 2025

Node.js, Redis Streams, MongoDB, React.js, OAuth 2.0, Groq AI, Docker, Microservices, JWT

- Built a modular CRM system using **microservices architecture** and **Redis Streams**-powered **pub-sub pipeline**, enabling asynchronous, high-throughput processing and scalable segmentation workflows.
- Designed a **dynamic rule-based campaign engine** with real-time audience preview and delivery tracking, supported by **Dockerized services**.
- Integrated **Groq-based NLP** to convert natural language prompts into MongoDB queries, enabling AI-driven audience targeting and campaign personalization using intelligent query generation.

MinAI Pdf Based Conversational Chatbot

Jun 2024 – Aug 2024

Python, Llama 2, LangChain, MongoDB, FAISS

- Built an **AI-powered multi-PDF chatbot** delivering **real-time answers** through **document-based querying** and NLP, achieving **85% accuracy** in extracting relevant information.
- Developed with **Python**, **LangChain**, **FAISS**, and **MongoDB**, integrating **Google Generative AI Embeddings** to improve response **human-likeness by 70%**.

Achievements

Google Nibbler's Project

Sep 2024 - Jan 2025

(AI Platform Testing)

AI, ML, Adversarial Testing, Image Processing

- Collaborated with **Google** to test and optimize the **AI-based** image generation platform, **Google Nibblers**, conducting **adversarial testing** to enhance model robustness and improve image generation quality.

Analysis and Optimization of the PCOS Patients Using Machine Learning Model

Aug 2024 - Dec 2024

(Book Chapter)

ML, Python, Data Analysis

- Co-authored a book chapter on **ML** in **Next Generation Computing Techniques for Biomedical Applications**.

Smart Food Waste Monitoring System

Nov 2022 - Feb 2023

(Patent Published)

ReactJS, NodeJS, ExpressJS, MongoDB, AI, IOT

- Secured a **published patent** for designing an advanced **Food Waste Monitoring System**, leveraging RFID/QR-tagged utensil tracking, **color-based detection sensors** and a central database, reducing food waste by **85%**.

Technical Skills

Languages & Algorithms: C, C++, JavaScript, Linux, DSA

DevOps & Tools: Git, Docker, AWS, Jenkins, Kubernetes, LangChain, FAISS, Redis

Databases: MongoDB, SQL, PostgreSQL

Web Stack: React.js, Node.js, Express.js, gRPC, Tailwind CSS

Certifications

NPTEL Cloud Computing Certification

Jul 2024 - Oct 2024

Education

Lovely Professional University, Jalandhar

B.Tech in Computer Science and Engineering

Expected graduation date: Aug 2026

CGPA: 7.93/10