

DEV GOHARI

Senior Software Engineer

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[portfolio-devgoharis-projects.vercel.app](#)

PROFESSIONAL SUMMARY

Experienced Software Engineer with expertise in MERN stack and AI technologies. Skilled in developing scalable applications, implementing microservices architecture, and creating robust backend systems. Proficient in JavaScript, TypeScript, Python, React, Node.js, and various databases. Passionate about integrating AI solutions including LLMs and vector databases to solve complex business challenges.

PROFESSIONAL EXPERIENCE

Software Engineer | [VT Netzwelt Pvt Ltd](#) | October 2022 - Present

- Develop and maintain scalable applications using MERN stack and AI technologies
- Design and implement secure backend infrastructure using NestJS and Node.js
- Create responsive and interactive front-end interfaces using React and TypeScript
- Implement AI solutions utilizing LangChain, Llama-Index, and vector databases
- Optimize application performance and ensure code quality through testing and code reviews
- Collaborate with cross-functional teams to define requirements and deliver solutions

Front-End Developer | [Cyber Matrix Solutions Pvt Ltd](#) | March 2022 - October 2022

- Developed custom React components and user interfaces following best practices
- Implemented state management solutions using Redux and integrated with RESTful APIs
- Incorporated third-party libraries into existing React applications
- Ensured cross-browser compatibility and responsive design

Front-End Developer Intern | [Madhuj Solutions Pvt Ltd](#) | January 2022 - March 2022

- Assisted in developing web interfaces using HTML, CSS, and JavaScript
- Collaborated with senior developers to implement front-end features
- Participated in code reviews and testing procedures

KEY PROJECTS

LLM-Based Visual Search System with Contextual Query Analysis

Technologies: Python, LLMs, Vector Databases, NLP

TECHNICAL SKILLS

Programming Languages

- JavaScript
- TypeScript
- Python
- HTML/CSS

Frontend

- React.js
- Next.js
- Redux
- Bootstrap

Backend

- Node.js
- NestJS
- Django
- RESTful APIs
- WebSockets

Databases

- MongoDB
- MySQL
- PostgreSQL
- Redis

AI/ML

- LangChain
- Llama-Index
- Pinecone

- Designed and implemented an advanced visual search system using Large Language Models and vector databases
- Created contextual metadata indexing to match natural language queries with relevant images
- Enabled semantic search capabilities without requiring exact keyword matches
- Implemented sophisticated query analysis for improved search accuracy and user experience

Vector-Based Recommendation Engine

Technologies: Python, PyTorch, FastAPI, MongoDB, Vector Databases

- Architected a hybrid recommendation system combining content-based, collaborative filtering, and vector embedding approaches
- Implemented content-based filtering using NLP techniques to analyze item metadata and user preferences
- Developed collaborative filtering algorithms to identify patterns in user behavior and provide personalized recommendations
- Created a hybrid approach leveraging vector embeddings to overcome cold-start problems and improve recommendation accuracy
- Deployed as a scalable microservice with RESTful API endpoints for seamless integration

AI Doctor Chatbot with Configurable Agents

Technologies: NestJS, AI/ML, TypeScript, LLMs

- Architected a healthcare chatbot system featuring specialized agents for appointments, onboarding, and inquiries
- Implemented a supervisor agent for monitoring interactions and ensuring compliance
- Designed a dynamic agent creation framework allowing customization with specific LLMs and prompts
- Integrated with healthcare systems for seamless data flow and patient management

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Technologies: NestJS, MySQL, MongoDB, Redis, AWS, WebSockets, Swift

- Developed scalable backend architecture for multiplayer gaming with real-time communication
- Integrated AWS Recognition for face detection and analysis capabilities
- Implemented Python microservices for advanced data analytics and player matchmaking
- Created secure payment system with PayPal integration for prize distribution

HR - AI Chatbot

Technologies: OpenAI API, Google Apps Script, Google Sheets, PDF Processing

- Engineered an in-house chatbot utilizing OpenAI's Assistant API for HR queries
- Integrated HR handbook PDF for comprehensive knowledge base creation
- Implemented seamless deployment using Google services for organization-wide access

- OpenAI API
- Vector Embeddings

Cloud & DevOps

- AWS
- Amazon S3
- Git
- CI/CD
- Vercel

EDUCATION

Master of Computer Application

JECRC University, 2023

Bachelor in Commerce

Lucknow University, 2020

CERTIFICATIONS

Front-End Web Development - The Hong Kong University of Science and Technology

LINKS

[GitHub Profile](#)

[Portfolio Website](#)