Hrishikesh V Vastrad

Software Developer

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Profile

Software developer with hands-on experience in backend systems, serverless architecture, and real-time applications. Strong foundation in computer science, deep learning, and AI. Passionate about building scalable, production-ready platforms through continuous learning and applied innovation

Skills

Programming — C++, JavaScript, Python

AI & ML — Machine Learning, Deep Learning, LLMs, NLP, Computer Vision, LangChain, RAG, Prompt Engineering, Gemini API, Scikit-learn, PyTorch, TensorFlow, Keras, FAISS, Data Preprocessing, Model Deployment

Backend — Node.js, Express, FastAPI, REST APIs

Frontend — React.js, Tailwind CSS, Angular

Databases — MongoDB, DynamoDB, PostgreSQL

Cloud and Devops — AWS (Lambda, S3, API Gateway, SQS, SNS), Serverless Framework, CI/CD (Bitbucket, CodeBuild)

Tools — Git

Internship

Backend Developer, *FleetOperate*   09/2024 – 07/2025
                                                                          Remote, Canada
Working as a Backend Developer on a fleet management SaaS platform, building scalable, production-ready features using AWS services and serverless architecture. Closely collaborate with frontend and QA teams in an Agile environment to deliver end-to-end solutions.
Design and deploy serverless APIs using AWS Lambda, API Gateway, and the Serverless Framework; implement Infrastructure as Code (IaC) with AWS CloudFormation; follow TDD with unit tests using Mocha, Chai, and Sinon; set up CI/CD pipelines with Bitbucket and AWS CodeBuild; integrate AWS services like DynamoDB, S3, SQS, SNS; monitor systems with CloudWatch.

SDE Intern, *Deevia Software Ind Pvt Ltd*   01/2024 – 06/2024
                                                                          Bengaluru, India
Contributed to the development of two production-grade industrial platforms, focusing on real-time data visualization and performance optimization. Delivered scalable and responsive solutions with strong emphasis on user experience and system reliability.
Built a real-time container monitoring dashboard using FastAPI, WebSocket, Angular, and OpenCV, enabling 30 FPS live video streaming across locations via binary frame transmission with robust error handling. Led frontend development of a vehicle underbody inspection web app using React.js, Tailwind CSS, and Socket.IO, enhancing inspection efficiency by 90% through real-time features and seamless RESTful API integration.

Education

B.E. in Computer Science Engineering, *KLE Technological University*   12/2020 – 06/2024
CGPA - 6.74   Hubli, India

Projects

LLM-powered Document Chatbot with LangChain   06/2025 – 07/2025
Built a document-based chatbot using **LangChain**, **Gemini Pro**, and **FAISS**.
Implemented **RAG** (Retrieval-Augmented Generation) by extracting PDF content,
converting to embeddings, and retrieving relevant chunks via semantic
search.Created dynamic prompt templates and generated responses from Gemini
Pro. Deployed an interactive UI using **Streamlit**, allowing users to ask context-
aware questions based on uploaded files.

AI-Powered Blog Platform ⧉   04/2025 – 06/2025
Built a full-stack AI-enhanced blog application using MongoDB**,** Express**,** React**,**
Node.js, and ImageKit for media handling. Integrated **Google Gemini API** to auto-
generate blog content and titles based on user prompts. Implemented secure user
authentication, CRUD blog operations, image optimization, and dynamic content
suggestions powered by LLMs. Designed for performance, scalability, and seamless
AI content creation.

Tezconect ⧉   09/2024 – 10/2024
Built a gig service platform connecting users with local workers for tasks like
cleaning and electrical work. Developed responsive Ul using React.js and Tailwind
CSS, integrated Google Authentication, and implemented real-time notifications
with Firebase. Served 50+ users in Dharwad with an average transaction value of
₹200.

Certificates

The Complete 2024 Web Development Bootcamp ⧉
Udemy

Machine Learning Specialization by Andrew Ng ⧉
Covers: Supervised ML, Linear & Logistic Regression, Neural Networks, Decision Trees, XGBoost, and ML
Deployment , Deep learning