TUSHAR TUGNAIT

SOFTWARE DEVELOPER | AI/ML | FULL-STACK | PYTHON | DISTRIBUTED SYSTEMS
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AI-focused full-stack developer with hands-on experience building scalable intelligent systems, backend orchestration tools, and secure cloud-based applications using Python, Flask, AWS, and modern frameworks.

SKILLS

Programming Languages: Python, C, C++
Frontend: React.js, JavaScript (ES6+), TypeScript, HTML5, and CSS3 (Flexbox/Grid), Vite
Backend: Flask, RESTful APIs, GraphQL (Apollo), LangChain, AWS (Bedrock, S3, Lambda, EC2, RDS), Docker, Git
Database: MySQL, PostgreSQL, Prisma ORM
Tools & Frameworks: Git, Firebase, PowerBI, OpenCV, Scikit-learn
Technical Concepts: Machine Learning, Neural Networks, Distributed Systems, Data Privacy, RAG Architecture, Cloud Storage Lifecycle Management

WORK EXPERIENCE

Software Developer – Navikenz   JAN, 2024 - CURRENT
- Contributed to the development of **Nocode-Lowcode AI platform**, enabling non-technical users to build AI agents with drag-and-drop functionality, ultimately reducing the time and effort required to make such agentic solutions by 80-90%.
- Engineered a smart orchestrator for dynamic routing between agents based on user queries, improving business logic automation and modularity.
- Involved in client interactions with **Johnson & Johnson, Air India, and Pfizer**, gathering requirements and converting their **GenAI-driven business goals into scalable technical solutions**.
- Enhanced system reusability and reliability by abstracting agent interactions and workflow orchestration.
- Improved deployment efficiency by optimizing backend components and leveraging AWS services, including cost-optimized use of **S3 storage lifecycle policies**.
- **Tech Stack:** Python, Flask, AWS, LangChain, Langgraph, Git, DevOps, Lambda

Intern - Incubit GBS Pvt. Ltd.   NOV, 2022 - JULY, 2023
- Collaborated on building **AirMedz**, an e-commerce platform for a Philippines-based client.
- Conducted client discussions, gathered requirements, and implemented business objectives into technical solutions.
- Delivered a responsive and scalable online pharmacy solution using modern web technologies.
- **Tech Stack:** JavaScript, React, Firebase, HTML/CSS

PROJECTS

Nocode-Lowcode AI Platform @Navikenz
- Built a platform to let non-engineers configure and deploy AI agents using a drag-and-drop UI.
- Created a centralized orchestrator for managing agent logic and dynamic task assignment.
- Improved automation and integration for enterprise users across workflows.
- Tech Stack: Python, Flask, LangChain, AWS, Docker

NectarBot @Navikenz

- Developed an RAG-based system using Amazon Bedrock for document summarization, sarcasm-aware sentiment analysis, and comparative text evaluation.
- Ensured enterprise-grade security and data privacy by directly integrating with client-side S3 storage.
- Tech Stack: Python, AWS S3, Bedrock, Git

J.A.R.V.I.S. AI Assistant
- Built a voice-based AI assistant capable of answering coding, mathematical, and general queries.
- Integrated NLP, CV2 for facial authorization, and OpenAI for natural response generation.
- Tech Stack: Python, OpenAI API, CV2, SpeechRecognition

Football Video Analysis System
- Designed a system to analyze football match videos using OpenCV and clustering algorithms for tactical insights.
- Delivered real-time visualizations to enhance coach decision-making.
- Tech Stack: Python, OpenCV, Scikit-learn

E-Commerce Web App
- Developed a modern, responsive online storefront with Vite + React and deployed via Vercel.
- Tech Stack: JavaScript, React, TailwindCSS, Vite, Vercel

RESEARCH & PUBLICATIONS

- ***"Analysis of Integration of Personalized AI Assistant with Facial Recognition and Voice Representation"***
  Published in IEEE, 2024. View Paper

EDUCATION

Course	Institution	Board/University	Year	Percentage/CGPA
B.Tech (CSE) with Hons. In AIML	Amity University, Noida	Noida, UP	2024	8.32
Grade XII	G.D. Goenka Public School, Indirapuram, Ghaziabad	CBSE	2020	89.2%
Grade X	G.D. Goenka Public School, Indirapuram, Ghaziabad	CBSE	2018	88.2%