UMESH CHANDRA DANI

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Skills

- JavaScript | TypeScript | Node | Python | Go | Express | FastAPI | Flutter | Nest.js | Next.js | React.js | Langchain & Langgraph
- AWS | Cloud Computing | CI/CD | Docker | Redis | Postgres | MongoDB | Linux | Kubernetes | Unit Testing | Supabase | Firebase
- Microservices | System Design | Distributed & Realtime Systems | Database Modeling | REST | Frontend | Backend | English, Hindi

Experience

Project Lead **Panchavaktra Advisory LLP (Startup)** *Gurugram, Haryana, India* **07/2024 - Current**

- Led the design and development of multiple **SaaS** applications using **MERN** Stack, along with some of their mobile counterparts in **Flutter**, Focused on scalability, client-specific customization, and successful production deployment, with several applications actively serving end-users.
- Designed and implemented scalable APIs and **background workers** for managing first- and third-party **integration**, verifying payments and heavy and large file processes using **Node.js, Python, SQS, Lambda**, and other **AWS cloud technologies** that serve thousands of requests daily. Enhanced system performance by designing efficient database schemas, implementing **indexing**, optimizing queries, and introducing **caching** strategies — resulting in a 20% improvement in data retrieval efficiency.
- Built a real-time distributed system leveraging **WebSockets** and **Server Sent Events(SSE)** to enable instant data transmission and event updates, reducing data latency by 30% and significantly improving the overall user experience.
- Developed an AI-powered assistant using the **LangGraph** framework, capable of querying databases via natural language, filling forms through an interactive UI, and providing actionable insights — boosting client productivity and saving operational time. Also built an invoice processing **OCR** and **reconciliation agent**.
- Led the development of several products E2E, from identifying system requirements and partner dependencies to workload balancing, software implementation, engineering, testing, and configuring metrics, alarms, monitors, and dashboards.
- Enriched system metrics by integrating the platforms with telemetry; facilitated in-depth logging by correlating APIs with vector contexts.
- Continuous Integration/Deployment **Pipeline** Integration, pull requests, code reviews, load/stress testing, unit/integration/e2e testing.

Full Stack Engineer **Panchavaktra Advisory LLP (Startup)** *Gurugram, Haryana, India* **07/2023 - 06/2024**

- Implemented SaaS applications from scratch using **Next.js**, **Express.js, Python, Node, PostgresDB** and **AWS**.
- Dockerizing the microservices using **Docker** and deploying them to **AWS ECS** and **Cloudfront**.
- As per the tool and client requirements, implemented complex workflows, integrations, and UI designs. On the backend, developed efficient database models, optimized queries, and implemented robust error handling for high performance and fault tolerance.
- Managed cloud architecture, deployment processes, and **CI/CD pipelines**. Developed test and build scripts for each microservice and resolved production issues quickly and efficiently.

Full Stack Engineer Intern **Panchavaktra Advisory LLP (Startup)** *Gurugram, Haryana, India* **01/2022 - 06/2022**

- Worked on multiple SaaS projects and independently developed the application from scratch.
- Contributed to both frontend development using Next.js and backend development using Node.js with the Express framework.
- Implemented token-based authentication with refresh tokens to ensure secure and seamless user sessions, incorporating RBAC, SSO, and Google authentication.

Education

Bachelor of Science **Graphic Era Hill University** *Uttarakhand, India* **07/2019 - 07/2023**

- Major in Computer Engineering (**8.4CGPA**)

Intermediate **Inspiration Se. Sec. School** *Uttarakhand, India* **04/2018 - 03/2019**

- Major in Science (**8.4CGPA**)

Projects

- **Flex Yourself:** Developed a web application that enables users to showcase their projects, portfolio, and share their knowledge through blogs — providing an all-in-one platform tailored for developers and designers.
  Next.js, Typescript, Postgres, Supabase, Golang, Kubernetes, Docker
  [Frontend Code](#), [Backend Code](#)
- **Realtime Dashboard**: High-performance dashboard that processes and visualizes data from large datasets (2GB+) in real-time.
  Next.js, Typescript, Postgres, Redis, Bullmq, JWT, Kubernetes, Docker
  [Source Code](#)