ASIM SK

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Work Experience

Vinva Technologies Pvt Ltd **Dec 2024 – Jun 2025**

Software Engineer Intern

- Optimized API performance by integrating **Redis caching** with **Node.js**, reducing response times from **7–8 seconds** to **under 10 milliseconds** for frequently accessed endpoints, significantly lowering backend load.
- Used the **Sidecar pattern** to add **logging and authentication** without changing the main backend code, improving scalability, simplifying updates, and enhancing overall maintainability.
- Refactored code using **SonarQube**, Dockerized **microservices** for consistency, and integrated **Redis and Kafka** to enhance **caching** and **event-driven communication.**
- Used **TanStack Query** for API data fetching and **Zod** for input validation, improving performance and reliability.

Projects

Semantix - Web AI Agent ⚙ | Next.js, Gemini AI, Pinecone, Shadcn | 🔗 **July 2025**

- Built an AI system using **Cheerio, Puppeteer, Gemini AI, and Pinecone** to transform unstructured website data into a semantic knowledge base using **LLMs**, enabling natural language **chat-based** search across complex sites.
- Created text processing with **LangChain** chunking and Gemini **vector embeddings** for fast, accurate search.
- Hybrid **web scraping** to extract data from **static & dynamic** sites, **Langfuse** for monitoring and optimization.

S3 Buddy - S3 Web UI ⚙ | TypeScript, NeonDB, Encryption | 🔗 **August 2025**

- A full-stack **AWS S3** management application that provides a secure, intuitive, and enterprise-grade interface—solving the complexity of directly managing **S3 buckets** through a modern UI with seamless file operations.
- Built 6 **RESTful API** endpoints for upload, download, delete, and encrypted credential management.
- Backend with **Clerk** authentication, **Drizzle ORM**, and **AES-256** encrypted credentials for S3 configuration.

Bharat PIN ⚙ | React, Leaflet.js, Vite, React Router | 🔗 **May 2025**

- Developed a **geo-coding** system that converts coordinates into **unique 10-character** codes, solving India's addressing inconsistencies for precise location identification in **emergency services and delivery optimization**.
- A 10-level **recursive grid algorithm** with boundary validation achieving 4-meter location precision across India.
- Interactive mapping interface using **Leaflet & TanStack Query** for coordinate tracking and **API** integration.

Build My Own Internet ⚙ | System Design, AWS, Architecture | 🔗 **June 2025**

- Designed and implemented end-to-end **software systems** from scratch, replicating core functionality of popular platforms to deepen **systems architecture** knowledge and **engineering skills**.
- Tried out and compared different **tools, algorithms & system designs** by building prototypes, testing performance, and weighing pros and cons.

Technical Skills

Languages: Java, JavaScript, Shell Scripting, SQL

Frontend Development: React.js, HTML5, CSS3, Tailwind CSS, Shadcn/UI

Backend & Frameworks: Node.js, Express.js, RESTful API, Mongoose(ODM), Prisma (ORM)

Databases & Search: MySQL, MongoDB, Redis, Pinecone

AI/ML & Generative AI: AI Agents, LangChain, RAG, LangGraph, MCP Server, Embedding Models, Langfuse, Ollama

Cloud, DevOps & Tools: Docker, Kubernetes, AWS, Serverless, Nginx, Linux, Grafana, GitHub, Wireshark, Postman

Education

NEW HORIZON COLLEGE OF ENGINEERING **September 2021 - November 2023**

Master of Computer Application (MCA)— CGPA: 8.37 *Bangalore,Karnataka*

THE UNIVERSITY OF BURDWAN **June 2017 - October 2020**

Bachelor of Computer Application (BCA)— CGPA: 6.54 *Burdwan,West Bengal*

Achievements

CODING PROFILE

- 100 Days Badge 2024 on **Leetcode** ↗
- Total **450+** Problem Solved

Certificates

AWS Cloud Practitioner↗ **March 2023 - March 2026**