

ASIM SK

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Work Experience

Vinva Technologies Pvt Ltd

May 2024 – Nov 2024

Software Engineer Intern

- Developed and optimized **AWS Lex** intents with **Lambda** to smooth chatbot interactions on web.
- Added quick replies to **fallback** intents, making it easier for new users to understand and navigate conversations.
- 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** to input validation, improving performance and reliability.

Projects

HyperLex AI | Next.js, DeepSeek AI, Tavily, API |

Feb 2025

- A **Perplexity** AI-inspired platform using **Retrieval-Augmented Generation (RAG)** for search, real-time news.
- Integrated **DeepSeek & Tavily API** for advanced language processing and context-aware web search capabilities.
- Custom hook-based **state management** system supporting concurrent chat sessions with **local storage** persistence.

Next-Gen Recommendation System | Next.js, LangChain, Convex DB |

October 2024

- Built a personalized recommendation engine using **vector embeddings** and AI-driven models, delivering real-time content suggestions based on user interactions.
- Integrated **Convex DB and LangChain.js** to handle real-time data and **LLMs**, optimizing search results and delivering smarter, context-aware recommendations.
- Built and deployed a responsive **Next.js** app with **TypeScript** and **Tailwind CSS** for a seamless user experience.

PixelFlow | TypeScript, S3, Docker, SQS, FFmpeg |

November 2024

- Built a scalable video transcoding platform supporting adaptive bitrate streaming (ABR), leveraging AWS services like **S3, SQS, ECS, ECR and Lambda** to ensure efficient and reliable video processing.
- Containerized **FFmpeg** for efficient video processing in multiple resolutions (**360p, 480p, 720p**).
- Automated workflows with **Node.js and TypeScript** for seamless video delivery.

Cloud Cost Optimization | Python, EC2, EBS, Lambda

July 2023

- Use the Combination of **AWS CloudWatch & Lambda** functions to decrease the cloud cost.
- Watch any unused **EBS snapshots** and either delete them or send out notification to the snapshot owner.
- Implemented **AWS Lambda** with **boto3** for API interaction, triggered by **CloudWatch** events, boosting agility and reducing response time.

Technical Skills

Languages: Java, JavaScript, Shell Scripting, SQL

Web Development: React.js, HTML5, CSS3

Frameworks: Node.js, Express.js, Tailwind CSS, Socket.IO

Database: MySQL, MongoDB, Redis, Prisma (ORM), Mongoose(ODM)

Technologies: Kubernetes, REST API, AWS, Nginx, Firebase, Kafka, Clerk auth, Serverless, Linux

Tools: Docker, Jenkins, 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