

ASIM SK

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Education

NEW HORIZON COLLEGE OF ENGINEERING

Master of Computer Application (MCA)— CGPA: 8.37

September 2021 - November 2023

Bangalore, Karnataka

THE UNIVERSITY OF BURDWAN

Bachelor of Computer Application (BCA)— CGPA: 6.54

June 2017 - October 2020

Burdwan, West Bengal

Projects

Next-Gen Recommendation System 🔄 | [Next.js](#), [LangChain](#), [Convex DB](#) | 🔄 October 2024

- Developed an AI-powered recommendation system using **Next.js**, **Convex DB** for managing **vector embeddings**, and personalized content suggestions.
- Enhanced recommendations with **LangChain.js** and **Voyage AI**, ensuring scalability and accuracy.
- Designed a responsive UI with **Tailwind CSS** for real-time, user-centric content delivery.

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.

Buy Me a Chai 🔄 | [React.js](#), [Hardhat](#), [Solidity](#), [Metamask](#) | 🔄 April - May 2024

- Developed a **Web3**-based platform using **React.js**, **Solidity**, and **Ethereum**, enabling creators to receive cryptocurrency donations directly.
- Established community governance and automated processes, fostering a thriving ecosystem where creativity and contributions are paramount.
- Implemented decentralized, transparent cryptocurrency donations via **Ethereum** smart contracts.

Cloud Cost Optimization 🔄 | [Python](#), [EC2](#), [EBS](#), [S3](#), [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, Solidity, JavaScript, Shell Scripting, SQL

Web Development: React.js, HTML5, CSS3

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

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

Technologies: Kubernetes, REST API, AWS, Nginx, Kafka, Serverless, Linux

Tools: Docker, Jenkins, Grafana, GitHub, Postman

Achievements

CODING PROFILE

- 50 Days Badge 2024 on **Leetcode** 🏆
- Total **450+** Problem Solved

RESEARCH PAPER | [IEEE](#) 🏆 May 2023

- V. Asha, A. P. Nirmala, B. Saju, **Asim Sk** and A. K. Das, "**Role of Blockchain Technology in Healthcare**" 2023 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS), Erode, India, 2023, pp. 370-374, doi: 10.1109/ICSCDS56580.2023.10104832.

Certificates

AWS Cloud Practitioner 🏆

March 2023 - March 2026