Ashlesh shenoy

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EDUCATION

Bachelor of engineering in Computer Science   CGPA : 8.46
Grad 2024 | Mangalore Institute of technology

SKILLS

Programming Languages: Python, Go, Java, JavaScript, TypeScript,
Frameworks: Express
API technology: GraphQL, Rest,
Database Management: MongoDB, MySQL, Redis
Development Tools : Docker, Git
Cloud Technologies : AWS
Familiar with : React, Flutter, Django, Android development in Java

PROJECT WORK

Real-time Sign Language Gesture Recognition & generation [Github]

- **Application build for accessible communication bridging sign language gestures and speech.**
- **Web sockets** allowing low latency data push between client and server applications
- **AWS S3** for storing the video files and a **Cloudfront CDN** to server the videos over multiple geo-locations.
- An **NLP pipeline** build to break the text sentences from client into array of video urls using NLTK in python.
- Image Processing to detect sign language
- **Flask** based web server running NLP pipeline to process the text into video urls
- Web Speech API for speech recognition, and speech synthesis in browser

Scalable backend application for MPEG-DASH based Video streaming [Github]

- **Oauth2.0** Google social login for seamless authentication
- **Decoupled** Architecture using **SNS, SQS** and **lambda**
- Resource efficient step scaling of EC2 **auto scaling group** with **Cloudwatch** metrics.
- Transcoding of videos into multiple bit rate chunks to enable **MPEG-DASH** based **Adoptive bitrate** streaming through **FFMPEG.**
- Low latency content delivery using **Cloudfront**
- Secure credentials mangement using Parameter store, IAM role

NutriFit: Nutrition tracking Android application   [Playstore] [Github]

- NutriFit, an Android nutrition tracking app. Empowered users to monitor diet, track macros, manage weight, and record water intake
- Provided charts and visuals for users to analyse their progress

EXPERIENCE

Product intern at Revoriant ventures LLP

- **Developed agile teams** and work culture in the organisation by introducing scrum and well documented processes using tools like notion, jira, slack and github actions for CI/CD.
- Created **user-centric product developments** by re-focusing teams on user issues and empathizing with user pain points.
- Worked closely with users to design and developed wireframe prototypes in figma, understanding user requirements.

CERTIFICATIONS & ACHIVEMENTS

- 1520 contest rating on leetcode,
- Secured first place in a college-level coding competition by excelling in problem-solving & presentation skills.
- Completed the online course on Machine learning from standford university in coursera