Sanjeev Kumar Singh

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EXPERIENCE

AlignTogether Solutions Pvt. Ltd. — October 2024 – Present
Software Development Engineer - II — *Bhopal, M.P*

AI/ML & Data Science | *Python, PyTorch, OpenCv, Numpy, FFmpeg, Scikit-learn, Pandas, Sagemaker*
- Developed end-to-end ML pipelines for training, evaluation, and deployment of AI models.
- Built computer vision modules for image/video processing using OpenCV and PyTorch.
- Created automated preprocessing workflows for cleaning, augmenting, and transforming datasets.
- Implemented efficient video processing and extraction using FFmpeg for analytics workflows.

Frontend & Mobile Apps | *Flutter, Dart, Bloc, Socket.IO, Matrix SDK, Firebase, Twilio SDK, Android, iOS, Hive*
- Built scalable cross-platform mobile applications using Flutter with clean and modular architecture.
- Developed complete real-time chat systems using Socket.IO and Matrix SDK with media sharing, read receipts, and role-based access.
- Integrated native Twilio video calling for Android and iOS, ensuring smooth UI and stable call performance.
- Implemented offline-first data storage using Realm and Hive with efficient syncing logic and conflict handling.

Backend & Cloud | *Node.js, Python, Flask, PostgreSQL, MySQL, AWS Lambda, SQS, SES, Docker, Redis,*
- Built backend APIs in Node.js and Python (Flask) with secure routing, validation, and scalable application structure.
- Migrated 30+ business workflows to an event-driven AWS serverless architecture using Lambda, EventBridge, SQS, and SES.
- Designed optimized database schemas and query logic for PostgreSQL and MySQL to support large datasets.
- Implemented automation pipelines for asynchronous processing, notifications, and data synchronization.

Affirmity Corp — December 2023 – September 2024
Software Development Engineer Intern — *Bhopal, M.P*

Perimeter Security System | *Flutter, Provider, REST APIs, Git,Flask, openCV, YOLOv8, FaceNet, openCV*
- Developed a multi-window and multi-tab Flutter desktop application with Flask backend using custom-trained YOLOv8 for real-time face recognition and FaceNet for face detection.

Affirmity Corp (Website) | *React, Node.js, Framer Motion, GSAP, Context API ,REST APIs, Git*
- Developed the company website with modern design, responsiveness, animations, and interactive elements.

PROJECTS

Trimly | *Next.js, MongoDB, Server Actions, App Router* — *Link*
- Built Trimly, a secure and scalable URL shortener application with an interactive and modern UI.
- Developed using Next.js App Router with Server Actions for optimized performance and seamless server-side handling.
- Integrated MongoDB for reliable storage and fast retrieval of shortened URLs, ensuring scalability and data integrity.

TECHNICAL SKILLS

Languages: Dart, Python, Java, SQL, JavaScript, TypeScript, HTML/CSS
Frameworks & Platforms: Flutter, Next.js, Node.js, Flask, Material-UI
AI/ML:PyTorch, TensorFlow, YOLOv8, OpenCV, Pandas, NumPy, Matplotlib
Cloud & DevOps: AWS (EC2, Lambda, S3, SageMaker, SES, SQS), Docker, Kafka, MQTT, Grafana, Prometheus
Developer Tools: Git, VS Code, IntelliJ IDEA, Jupyter Notebook

EDUCATION

Sagar Institute of Science and Technology — Bhopal, M.P
B.Tech in Computer Science and Engineering (CGPA: 8.38) — *Oct 2020 – May 2024*