Yarabarla Manidweep

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PROFESSIONAL SUMMARY

Computer Science undergraduate specializing in Full Stack Development. Experienced in developing RESTful web applications using Java, JavaScript, and SQL. Hands-on experience with frontend and backend development, API integration, and database design. Knowledgeable in Machine Learning and Computer Vision with project exposure using PyTorch, OpenCV, and NVIDIA Jetson Nano.

TECHNICAL SKILLS

Programming Languages: Python, Java, C, SQL
Web Technologies: HTML, CSS, JavaScript, React.js, Node.js, Express.js, REST APIs, CRUD Operations
Machine Learning & Computer Vision: PyTorch, OpenCV, CNNs, ResNet-18, Model Training, Inference
Data Analytics & Visualization: Pandas, NumPy, Matplotlib, Tableau, Data Cleaning
Databases & Developer Tools: Firebase, MongoDB, Git, GitHub, Postman, VS Code, Debugging

EXPERIENCE

Java Full Stack Developer – Internship Jan 2025 – Jun 2025
Remote

- Implemented **3+ full-stack web modules** using Java, Spring-based concepts, HTML, CSS, and JavaScript
- Designed and developed **5+ RESTful APIs** supporting CRUD operations and client–server communication
- Optimized frontend–backend integration, improving application response time by **25%**
- Managed source code using Git and GitHub with **20+ commits** across feature branches

PROJECTS

Mini Spotify
Node.js, Express, Firebase, JavaScript

- Engineered a full-stack music streaming application using Node.js, Express.js, and Firebase
- Implemented secure user authentication supporting **50+ users**
- Designed Firestore NoSQL schema managing **75+ playlists** and **100+ songs**
- Enhanced user experience by integrating a custom audio player with **4 playback controls**

Driver Drowsiness Detection using Computer Vision
Python, OpenCV, PyTorch, ResNet-18, NVIDIA Jetson Nano

- Prepared and labeled a dataset of **500+ image frames** for binary classification
- Trained a ResNet-18 CNN model using PyTorch for driver state detection
- Achieved real-time inference at **15+ FPS** using OpenCV on edge hardware
- Deployed the trained model on NVIDIA Jetson Nano for edge AI inference

EDUCATION

Vishnu Institute of Technology Bhimavaram, AP
*B.Tech in Computer Science and Engineering (CSE) – CGPA: **8.64*** *Aug 2023 – Present*

Sri Chaitanya Junior College Eluru, AP
Intermediate (MPC) – 94.5% *Aug 2021 – Apr 2023*

CERTIFICATIONS & ACHIEVEMENTS

- Salesforce Certified **Agentforce Specialist** – Salesforce (2025)
- Runner-Up, **FAILATHON 24-Hour Hackathon** – Vishnu Institute of Technology (2024)
- Completed **Data Analytics Job Simulation** – Deloitte (2025)
- Completed **SQL (Intermediate)** Certification – HackerRank