Harsh Sahu

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EDUCATION

SRM Institute of Technology	Chennai, Tamil Nadu
Bachelor of Technology in CSE (Data Science), Current CGPA: 9.50	*Sept. 2022 – Present*
Bharat Ratan School	Seoni, Madhya Pradesh
Class 12th, Percentage: 92.8% (Mathematics, Physics, Chemistry)	*April 2020 – May 2021*

EXPERIENCE

Project Engineer — Remote
Kalvium — *May 2025 – Aug 2025*
- Developing full-stack applications (React.js, Node.js/Express, Python, C++, Java), ensuring **coding standards, unit testing, and integration testing** for high-quality deliverables.
- Building cloud-native applications on **Google Cloud Platform and AWS**, practicing Agile teamwork, problem solving, and continuous learning in collaborative environments.

Software Engineer — Chennai, India
Rento (SRM DEI Startup) — *Jan 2025 – May 2025*
- Architected property management platform with React.js, Node.js, and PostgreSQL, implementing real-time chat and advanced search, boosting engagement by 35% and Backend in Java Springboot.
- Designed ML-based recommendation system with TensorFlow, improving property match accuracy by 25%, following **quality testing and problem-solving practices**.

Backend Developer — Remote
Zidio Development — *June 2024 – Sept 2024*
- Developed predictive models in Python (pandas, scikit-learn), deployed via Flask APIs with Docker, ensuring software testing compliance.
- Created React + Plotly dashboards, reducing stakeholder decision-making time by 40% through clear communication and data visualization.

Computer Vision Research Scientist Intern — Remote
National Chung Cheng University, Taiwan — *July 2023 – Dec 2023*
- Developed accident detection systems with OpenCV and TensorFlow, achieving 92% accuracy with reproducible coding practices.
- Collaborated with global teams, practicing **teamwork, adaptability, and communication** while publishing research findings.

Android Developer — Chennai, India
SRM Hospitals — *Jan 2023 – June 2023*
- Built Flutter-based cross-platform mobile app with Firebase backend, implementing **secure coding and compliance standards**.
- Developed Python + SQL dashboards in Tableau, reducing manual reporting time by 30% and supporting team efficiency.

KEY PROJECTS

Blockchain-Secured PII Data Masking Platform — Ethereum, Solidity, Python, React, IPFS
- Designed secure data platform using blockchain and cryptography, ensuring **compliance, testing, and quality standards**.
- Built AI model for PII detection with Python (NLP + ML) and smart contracts for decentralized access control, reducing breach risk by 85%.

6G AI-Native Network Slice Orchestration — Python, TensorFlow, Kubernetes, gRPC
- Implemented ML-driven slice allocation, improving resource use by 45%.
- Built orchestration platform with Kubernetes + APIs, following **coding standards, problem-solving, and Agile collaboration**.

AI-Powered Accident Detection System — Python, TensorFlow, OpenCV

- Built CNN-based accident detection system, achieving 94% accuracy, tested across large datasets.
- Optimized for edge deployment, reducing compute needs by 35% while ensuring quality compliance.

ChromaGenius: Deep Learning Image Colorization   Python, GANs, PyTorch
- Developed GAN-based colorization model, improving output quality by 20%.
- Optimized training pipeline, reducing processing time by 25% and applying **testing + code review best practices**.

ACHIEVEMENTS & PUBLICATIONS

Winner, ITU 6G Hackathon (2025) – Built AI-native wireless optimization system, showing teamwork, adaptability, and innovation.

First Prize, HackTrax Hackathon – Delivered blockchain-based system with real-time processing, applying coding and problem-solving skills.

Research Publication: "Real-Time Accident Detection with Deep Learning" – Presented at ICPR.

Global Rank 496, TCS CodeVita (Top 1% globally) – Competitive programming and algorithm design.

Top 2000 Global, Meta Hacker Cup – Problem solving, algorithms, and coding standards under time constraints.

CERTIFICATIONS & TRAINING

Google AI/ML AICTE Virtual Internship – Hands-on ML training in TensorFlow and problem-solving projects.

NPTEL Python for Data Science – Elite Grade (Top 2%), covering data analysis, visualization, and quality testing.

AWS Certified Developer Associate – Cloud deployments, containerization, and scalable application practices.

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, SQL
Google Technologies: Google Cloud Platform (GCP), Google Workspace, Firebase, Google Colab
Web Development: React.js, Node.js, Express.js, Spring Boot, HTML5, CSS3
Databases: PostgreSQL, MySQL, MongoDB, Firebase
AI/ML: TensorFlow, PyTorch, Scikit-learn, OpenCV, GANs, CNNs
Tools: Git, Docker, Linux, VS Code, IntelliJ, Agile, Unit Testing
Other: Kubernetes, D3.js, Tableau, APIs, Problem Solving, Team Collaboration, Communication