



EDUCATION

[REDACTED]
Bachelor of Technology in CSE (Data Science), Current CGPA: 9.50

[REDACTED], [REDACTED]
[REDACTED] – Present

[REDACTED] School

Class 12th, Percentage: 92.8% (Mathematics, Physics, Chemistry)

[REDACTED], [REDACTED]
[REDACTED] – **[REDACTED]**

EXPERIENCE

Project Engineer

Remote

Kalvium

[REDACTED] – Present

- Developing full-stack applications using **[REDACTED]**.js frontend with **[REDACTED]**.js/**[REDACTED]** backend, implementing responsive UI components and RESTful API integrations for scalable web solutions.
- Building cloud-native applications on AWS/GCP with containerized deployments, participating in Agile development cycles with focus on clean code practices and automated testing.

Analyst

[REDACTED], [REDACTED]

[REDACTED] ([REDACTED])

[REDACTED] – **[REDACTED]**

- Architected full-stack property management platform using **[REDACTED]**.js, **[REDACTED]**.js, and PostgreSQL, implementing real-time chat features and advanced search algorithms that improved user engagement by 35%.
- Developed machine learning recommendation system using Python and TensorFlow, creating automated data pipelines that enhanced property matching accuracy by 25% through collaborative filtering.

Data **[REDACTED]** & Backend Developer

Remote

Zidio Development

[REDACTED] – **[REDACTED]**

- Engineered end-to-end data science solutions using Python, pandas, and scikit-learn, building predictive models and deploying them via **[REDACTED]** APIs with **[REDACTED]** containerization.
- Created interactive data visualizations using D3.js and Plotly, delivering insights through **[REDACTED]**-based dashboards that reduced decision-making time by 40% for business stakeholders.

Computer Vision Research **[REDACTED]**

Remote

National Chung Cheng University, [REDACTED]

[REDACTED] – **[REDACTED]**

- Developed real-time computer vision applications using OpenCV, TensorFlow, and PyTorch, creating accident detection systems with 92% accuracy through advanced deep learning architectures.
- Published research findings in international conferences, collaborating with global teams using version control, continuous integration, and agile methodologies for reproducible research outcomes.

Mobile Developer & Data Analyst

[REDACTED], [REDACTED]

SRM Hospitals

[REDACTED] – **[REDACTED]**

- Built cross-platform mobile application using Flutter and Dart, integrating with Firebase backend and implementing secure patient data management systems compliant with healthcare regulations.
- Developed analytics dashboard using Python, SQL, and **[REDACTED]**, creating automated reporting systems that improved operational efficiency by 30% and reduced manual data processing time.

KEY PROJECTS

Blockchain-Secured PII Data Masking Platform

Ethereum, Solidity, Python, **[REDACTED]**, IPFS, Web3.js

- Architected enterprise-grade document security system using blockchain technology and advanced cryptographic algorithms, achieving 99.99% data integrity with immutable audit trails for sensitive PII information.
- Implemented smart contracts in Solidity for decentralized access control and automated compliance reporting, integrating with IPFS for distributed storage and reducing data breach risks by 85%.

6G AI-Native Network Slice Orchestration System

Python, TensorFlow, 5G Core, Kubernetes, gRPC

- Pioneered next-generation 6G network architecture using AI-driven slice allocation algorithms, implementing reinforcement learning models that optimized network resource utilization by 45% compared to traditional methods.

- Built intelligent network orchestration platform using microservices architecture with [REDACTED], integrating with 5G Core networks through gRPC APIs and achieving sub-millisecond latency for critical applications.

AI-Powered Accident Detection System

Python, TensorFlow, [REDACTED], InceptionV3, [REDACTED]

- Published research paper implementing CNN-based accident detection using [REDACTED] and InceptionV3 architectures, achieving 94% accuracy in real-time video analysis with comprehensive dataset validation.
- Optimized deep learning models for edge deployment, reducing computational requirements by 35% while maintaining high accuracy for resource-constrained environments.

ChromaGenius: Deep Learning Image Colorization

Python, GANs, [REDACTED], [REDACTED]

- Developed sophisticated GAN-based image colorization system, achieving 20% performance improvement through iterative refinement and advanced training techniques.
- Optimized neural network architecture and training pipeline, reducing processing time by 25% while maintaining photorealistic colorization quality for historical image restoration.

ACHIEVEMENTS & PUBLICATIONS

Winner, [REDACTED] 6G Hackathon ([REDACTED]) – Developed next-generation wireless communication solutions using AI-native network architectures for intelligent slice allocation and resource optimization.

First Prize, HackTrax Hackathon – Created innovative full-stack application with blockchain integration and real-time data processing capabilities for decentralized systems.

Research Publication: "Real-Time Accident Detection with Deep Learning" - International Conference on Pattern Recognition, demonstrating practical applications of CNN architectures in safety systems.

Global Rank 496, [REDACTED] CodeVita International Coding Competition (Top 1% globally) - Advanced algorithmic problem solving and competitive programming excellence.

Top [REDACTED] Global, Meta Hacker Cup - Demonstrated expertise in complex algorithm design, data structures, and optimization techniques on global competitive platform.

CERTIFICATIONS & TRAINING

Google AI/ML AICTE Virtual Internship - Advanced Machine Learning, TensorFlow, and practical AI implementation in real-world applications with hands-on project experience.

NPTEL Python for Data Science - Elite Grade (Top 2%) - Comprehensive training in Python programming, data analysis, visualization, and statistical modeling techniques.

AWS Certified Developer Associate - Cloud computing, serverless architectures, containerization, and modern deployment strategies for scalable applications.

TECHNICAL SKILLS

Programming Languages: Python, [REDACTED] Script, [REDACTED], C++, TypeScript, SQL, R, [REDACTED], Solidity

Frontend Development: React.js, Vue.js, HTML5, CSS3, Bootstrap, [REDACTED] CSS, WebAssembly

Backend Development: Node.js, Express.js, Django, [REDACTED], Spring Boot, FastAPI, gRPC

Blockchain & Cryptography: Ethereum, Solidity, Web3.js, IPFS, Smart Contracts, Post-Quantum Crypto

AI/ML & Deep Learning: TensorFlow, [REDACTED], Scikit-learn, TensorRT, AutoML, NLP (BERT, spaCy)

Network & Telecommunications: 5G/6G Core, Network Slicing, SDN/NFV, [REDACTED] Orchestration

Database Technologies: PostgreSQL, MongoDB, MySQL, Redis, Firebase, Distributed Databases

Cloud & Edge Computing: AWS, GCP, [REDACTED], [REDACTED], NVIDIA Jetson, Edge AI, HPC

Data Science & Analytics: Pandas, NumPy, Apache Spark, [REDACTED], [REDACTED], Big Data Processing

Specialized Technologies: [REDACTED], Quantum Computing, IoT, WebRTC, Federated Learning