

EDUCATION

Bachelor of Science in **Computer Science** (Computer Science), CGPA: 9.50/10.0 Sept. 2022 – Present

Government Engineering College
Higher Secondary Certificate (Mathematics, Physics, Chemistry), 92.8%

EXPERIENCE

Project Engineer

Kalvium

2023 – Present
Remote

- Developing enterprise-grade full-stack applications using React.js frontend with Node.js/Express.js backend, implementing responsive UI components and secure RESTful API integrations for scalable financial web solutions
- Building cloud-native applications on AWS/GCP with containerized deployments, participating in Agile development cycles with focus on clean code practices, automated testing, and regulatory compliance standards

Software Engineer Analyst

Government Engineering College

2022 – 2023
Remote

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

Scientist & Backend Developer

Zidio Development

2021 – 2022
Remote

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

Computer Vision Research Scientist

National Chung Cheng University, Taiwan

2020 – 2021
Remote

- Developed real-time computer vision applications using OpenCV, TensorFlow, and PyTorch, creating fraud detection and security monitoring 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

SRM Hospitals

2019 – 2020
Remote

- Built cross-platform mobile application using Flutter and Dart, integrating with Firebase backend and implementing secure patient data management systems compliant with healthcare regulations and HIPAA standards
- Developed analytics dashboard using Python, SQL, and Tableau, creating automated reporting systems for financial and operational metrics that improved efficiency by 30% and reduced manual processing time

KEY TECHNICAL PROJECTS

Blockchain-Secured PII Masking Platform | Ethereum, Solidity, Python, 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% for financial trading applications
- Built intelligent network orchestration platform using microservices architecture with Kubernetes, integrating with 5G Core networks through gRPC APIs and achieving sub-millisecond latency for high-frequency trading systems

AI-Powered Fraud Detection System | *Python*, ██████████, ██████████, *InceptionV3*, ██████████

- Published research paper implementing CNN-based fraud detection using ██████████ and InceptionV3 architectures, achieving 94% accuracy in real-time transaction analysis with comprehensive dataset validation
- Optimized deep ██████████ing models for edge deployment, reducing computational requirements by 35% while maintaining high accuracy for resource-constrained financial environments

ChromaGenius: Deep Learning Image Processing | *Python*, *GANs*, ██████████, ██████████

- Developed sophisticated GAN-based image processing system for document digitization, achieving 20% performance improvement through iterative refinement and advanced training techniques
- Optimized neural network architecture for financial document processing, reducing processing time by 25% while maintaining high quality for regulatory compliance documentation

ACHIEVEMENTS & RECOGNITION

Winner, ██████████ 6G Hackathon (2025) - Developed next-generation wireless communication solutions using AI-native network architectures for intelligent resource optimization in financial trading systems

First Prize, HackTrax Hackathon - Created innovative fintech application with blockchain integration and real-time data processing capabilities for secure decentralized financial systems

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

Global Rank 496, ██████████ (Top 1% globally) - Advanced algorithmic problem solving and competitive programming excellence in financial modeling and optimization

Top 2000 Global, Meta Hacker Cup - Demonstrated expertise in complex algorithm design, data structures, and optimization techniques for large-scale systems

TECHNICAL SKILLS

Programming Languages: Python, ██████████, ██████████ Script, C++, TypeScript, ██████████, R, Solidity

AI/ML & Data Science: ██████████, ██████████, ██████████, ██████████, ██████████, ██████████, ██████████, NLP

Frontend Development: ██████████.js, ██████████.js, ██████████, ██████████, ██████████, ██████████, WebAssembly

Backend & APIs: ██████████, ██████████.js, ██████████, ██████████, ██████████, ██████████, RESTful APIs

Database & Storage: PostgreSQL, MongoDB, MySQL, Redis, Firebase, Distributed Databases

Cloud & DevOps: AWS, GCP, ██████████, Kubernetes, CI/CD, Microservices Architecture

Blockchain & Security: Ethereum, Solidity, Web3.js, IPFS, Smart Contracts, Cryptography

Analytics & Visualization: ██████████, D3.js, Plotly, Jupyter, Statistical Modeling, Big Data Processing

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Google AI/ML AICTE Virtual Internship - Advanced Machine Learning, ██████████, and practical AI implementation in financial applications with hands-on project experience

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

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