

# Tadepalli Vijaya Krishna

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## PROFESSIONAL SUMMARY

Aspiring Software Developer with a strong foundation in computer science, specializing in object-oriented programming, data structures, and algorithm design. Proficient in Java, Python, C, C++ with a proven track record of developing scalable, efficient solutions for complex business problems, including predictive analytics, detection, and supply chain optimization. Adept at collaborating with cross-functional teams to deliver high-quality code, adhering to industry standards, and producing clear technical documentation. Passionate about leveraging advanced information-retrieval techniques and elastic storage systems to enhance user experiences and drive operational excellence in large-scale applications.

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## Skills

- **Web Development:** HTML, CSS, JavaScript
- **Programming Languages:** Java, C++, C, Python, R
- **Databases:** SQL, MYSQL, PostgreSQL, MongoDB, FIASISS
- **Frameworks & Libraries:** Hadoop, PyTorch, React, NumPy, Pandas, Matplotlib, Scikit-learn
- **Cloud Platforms:** Database Developer on Oracle Cloud
- **Data Analysis:** Power BI, IBM Cognos, Tableau
- **Data Structures:** Arrays, Linked Lists, Trees, Graphs, Hash Maps, Tries, Queues, Heaps
- **Algorithms:** Sorting, Searching, Dynamic Programming, Graph Algorithms, Pattern Matching, Predictive Modeling
- **Object-Oriented Programming:** Class Design, Encapsulation, Inheritance, Polymorphism, Modularity
- **Scalability & Performance:** Distributed Systems, Load Balancing, Elastic Storage, Multithreading.
- **Domains:** Predictive Analytics, Detections, Information Retrieval.
- **Other Skills:** Operating Systems ( OS ), DBMS, Problem Solving Skills ( PS ), Git, LLM's, Team Collaboration, Analytical Thinking.

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## Education

B.tech CSE Cyber security, Graduation Year (2025), Vellore Institute of Technology	XII 2019-2021 MPC, Percentage- 95.5%, Narayana(State Board)	X 2019, CGPA – 9.2, Narayana (State Board)
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## PROJECTS

### Project 1 : AI-Powered Custom LLMs Builder

Developed a platform for creating and customizing large language models (LLMs) tailored to specific industry needs, enhancing communication and data analysis. Features include model training, deployment, and fine-tuning. (Technologies: Python, AI, LLMs, TensorFlow, Flask)

### Project 2 : Blockchain-Based Real Estate Asset Digitalization and Transaction Application (scalable)

Built a blockchain-based system for digitalizing real estate assets and automating transactions using smart contracts. Ensures secure property transactions and transparent ownership records. (Technologies: Solidity, Blockchain, React.js, AWS)

### Project 3 : Real-Time Performance Monitoring, Logging & Debugging System For Rpc-Based Application

Developed a real-time performance monitoring, logging, and debugging system for an RPC-based application with

high-throughput handling. Implement gRPC RPC services, Prometheus for monitoring, ELK Stack for logging, and OpenTelemetry for distributed tracing. Build a React.js dashboard for real-time metrics visualization, alerts, and debugging insights. Set up CI/CD with GitHub Actions, Docker and automate testing using Jest.

#### **Project 4 : Fraud Detection System using LLM Embeddings:**

Developed a real-time fraud detection system using GPT-4, and FAISS for anomaly detection in 100 M+ financial transactions. Integrated MongoDB and a vector database for high-speed similarity search, enabling efficient fraud pattern analysis. Built a scalable pipeline with Kafka and FastAPI, deploying on GCP with Kubernetes while ensuring security AES-256. Implemented real-time alerts via Twilio and developed a Next.js dashboard with GraphQL APIs for fraud monitoring.

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#### **Work Experience**

**Aug 2024 – Jan 2025 | ITHAS**

- Designed and implemented scalable, high-performance backend architectures using Node.js, Java, and Go, optimizing database queries and API response times by 40%. Built and maintained microservices with Docker, Kubernetes, and cloud platforms, ensuring 99.99% uptime and secure data handling.
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#### **CERTIFICATIONS**

- Oracle Cloud Infrastructure Foundations Associate
  - MERN stack developer by ETHNUS
  - Blockchain developer by Nasscom
  - Google Project Management: Professional
  - Microsoft Cybersecurity Analyst Professional
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#### **RESEARCH PAPER**

- Published a Research paper on Asset – Tokenization using Blockchain
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#### **ACHIEVEMENTS/AWARDS**

- 1<sup>st</sup> place in Cryptography hackathon by NextGen Cloud
- 1<sup>st</sup> place Build a Web app hackathon
- Runner up in Geekify hackathon
- 1<sup>st</sup> place in Evolve hackathon by IBM
- 1<sup>st</sup> DIMO Hacks (Blockchain based hackathon)