BALAJI PATIL

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Education

VIT Bhopal University   **2022 − 2026**
Bachelor of Technology in Computer Science, CGPA: 8.40/10.0   *Bhopal, India*

Professional Experience

Software Development Intern   **Oct 2025 − Present**
Hashtokens   *Remote*

- Architected and deployed Endpoint Data Management System using React Vite, reducing API documentation time by 60% through intelligent metadata organization and tagging system
- Automated performance testing workflows using Python scripts, decreasing manual testing effort by 75% and improving system reliability to 99.5% uptime
- Applied CAP theorem principles to architect distributed system achieving optimal consistency-availability balance under network partition scenarios

Projects

Secure Military Communication System | *C, Data Structures, Encryption Algorithms, File I/O*   **Nov 2024 − Present**

- Engineered a secure terminal-based messaging system implementing XOR encryption/decryption algorithms for military-grade communication security
- Developed user authentication system with audit logging capabilities, ensuring secure access control and communication trail for defense applications
- Implemented structured data handling using C structs and file operations, processing encrypted messages with hexadecimal encoding for enhanced security
- Designed modular architecture with separate encryption, authentication, and logging modules demonstrating strong system design principles

Radar Simulation and Threat Detection System | *C, Algorithms, Data Structures, Simulation*   **Nov 2024 − Present**

- Built real-time radar simulation system capable of tracking multiple targets with distance, bearing, and speed calculations using mathematical algorithms
- Implemented threat detection algorithms analyzing target parameters (distance, speed, type) to identify potential threats with configurable security levels
- Developed multi-target tracking system using arrays of structures, handling up to 10 simultaneous targets with real-time threat assessment capabilities
- Created alert generation system for high-priority threats with comprehensive logging and system status monitoring for defense applications

Technical Skills

Programming Languages: C, C++, Python, SQL, JavaScript, HTML, CSS
C Development: Data Structures, Algorithms, Memory Management, Pointers, File I/O, Multi-threading
Frameworks & Libraries: React, Vite, Flask, Pandas, NumPy, Scikit-learn, Bootstrap
Data Analytics & BI Tools: Power BI, Tableau, Excel, Advanced DAX, Statistical Analysis, Predictive Modeling
Tools & Technologies: Git, REST APIs, ETL Pipelines, Data Visualization, Machine Learning, Distributed Systems
Soft Skills: Problem Solving, Data Storytelling, Stakeholder Communication, Cross-functional Collaboration, Adaptability

Certifications & Achievements

Google Data Analytics Professional Certificate – Coursera (2024)
LeetCode: Solved 500+ algorithmic problems (300+ in C/C++) demonstrating strong problem-solving capabilities
HackerRank: Achieved 5-star rating in C++ programming
Power BI Portfolio: Developed 10+ interactive dashboards with dynamic charts, KPIs, and real-time reporting