

# T VINAY KUMAR

Tirupati, Andhra Pradesh

📞 +91-7670822528

✉️ thungamittavinaykumar07@gmail.com

LinkedIn

Github

LeetCode

## EDUCATION

### Amrita Vishwa Vidyapeetham, Coimbatore

B.Tech - Computer Science and Engineering - **CGPA - 8.18/10**

09/2021 – 05/2025

Coimbatore, Tamil Nadu

## EXPERIENCE

### Light & Wonder

Associate Software Engineer

09/2025 – Present

Bengaluru, India

- Developing a reusable and scalable Common UI using LVGL framework, focusing on modular design, performance optimization and maintainability across embedded platforms.

### Light & Wonder

Software Engineer Intern

03/2025 – 09/2025

Bengaluru, India

- Worked on backend system components, improving performance and system integration in gaming platforms.
- Debugged and enhanced OS-level and embedded system modules, ensuring stable interactions between hardware and software components.
- Collaborated with engineers across teams to analyze issues, implement fixes, and validate solutions through testing and CI/CD pipelines.

**Tech Stack:** React.js, Redux, TypeScript, C#, .NET, C++, Perforce, CI/CD, Operating Systems

### LAM Research

AI Research Scholar

11/2023 – 04/2024

Remote

- Worked on Graph Databases and Graph Neural Networks (GNNs) to analyze and resolve supply chain bottlenecks, improving data visibility and operational insights.

**Tech Stack:** Microsoft Azure, Azure CosmosDB, GNN, GraphDB, GremlinQuery

## TECHNICAL SKILLS

**Programming Languages:** C++, Java, Python, C, JavaScript, SQL

**Frameworks & Database :** HTML, CSS, React.js, Next.js, .NET, MySQL ,MongoDB

**Tools/Technologies:** Git, Perforce, CI/CD, Docker, Kubernetes, Linux, Ubuntu, NetworkMiner, Wireshark

**Academic Coursework:** OOPS, Data Structures & Algorithms, Operating Systems, Computer Architecture, Computer Networks, Database Management, NLP

## PROJECTS

### Evo-Health

08/2024 - 04/2025

- Designed and implemented a Genetically Optimized Bayesian Network (GOBN) for early prediction of Metabolic Syndrome, leveraging evolutionary algorithms for optimal feature selection and severity classification.
- Applied a modular, data-driven design to generate personalized healthcare recommendations, ensuring scalability, extensibility, and future integration.

**Tech Stack:** Machine Learning, Python, Deep Learning, Genetic Algorithms, Bayesian Networks

### Intrusion Detection System (IDS)

11/2023

- Developed a network-based Intrusion Detection System (IDS) using GNS3 to address the increasing sophistication of malicious attacks and evasion techniques in modern malware.
- Simulated and demonstrated various network-based attacks, including ICMP, MAC Flooding, DOS SYN, and UDP Flooding, on virtual machines to test IDS effectiveness and improve detection accuracy.

**Tech Stack:** Computer Networking, Linux, Ubuntu, VMWorkstation, Security Onion, GNS3, Wireshark

## PUBLICATIONS AND ACHIEVEMENTS

- Published a research paper indexed in IEEE Xplore and SCOPUS: "A Hybrid Feature Selection Model for Early Prediction of Metabolic Syndrome", ICSADL 2025.
- Selected for Amazon ML Summer School 2023, gaining hands-on exposure to Applied ML concepts.