

# T VINAY KUMAR

Tirupati, Andhra Pradesh

+91-7670822528 |  thungamittavinaykumar07@gmail.com | 

## EDUCATION

<b>Amrita Vishwa Vidyapeetham, Coimbatore</b> <i>B.Tech - Computer Science and Engineering - CGPA - 8.18/10</i>	<b>09/2021 – 05/2025</b> <i>Coimbatore, Tamil Nadu</i>
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## EXPERIENCE

<b>Light &amp; Wonder</b> <i>Associate Software Engineer</i>	<b>09/2025 – Present</b> <i>Bengaluru, India</i>
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- Developing a reusable and scalable Common UI using LVGL framework, focusing on modular design, performance optimization and maintainability across embedded platforms.

<b>Light &amp; Wonder</b> <i>Software Engineer Intern</i>	<b>03/2025 – 09/2025</b> <i>Bengaluru, India</i>
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- 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, OS, Debugging

<b>Amazon</b>	<b>09/2023 – 10/2023</b>
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*Amazon ML Summer School - Apprenticeship*

- Involved in a 6-week intensive apprenticeship program focused on Machine Learning, covering foundational concepts, algorithms and practical AI Models in real-world scenarios.

**Tech Stack:** Machine Learning , Deep Learning, Deep Neural Networks, Reinforcement Learning , GenAI, NLP, AI

## TECHNICAL SKILLS

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

**Frameworks & Database :** React.js, Next.js, Node.js, Express.js, .NET, MySQL ,MongoDB, Typescript

**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

<b>Evo-Health</b>	<b>08/2024 - 04/2025</b>
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- Designed and implemented a Genetically Optimized Bayesian Network (GOBN) for early prediction of Metabolic Syndrome, leveraging evolutionary algorithms for optimal feature selection, severity classification and personalized healthcare recommendations
- Developed a web application enabling MetS prediction, severity assessment, and personalized healthcare recommendations with an intuitive UI, supported by a RESTful API backend and MongoDB integration.
- Tech Stack:** Software Development(Web), MongoDB, React, JWT , GA, Python, Bayesian Networks

<b>Intrusion Detection System (IDS)</b>	<b>11/2023</b>
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- Constructed 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:** Linux, Ubuntu, Networking Protocols, Security Onion, GNS3, Wireshark

## PUBLICATIONS

- Published a research paper indexed in IEEE Xplore and SCOPUS: "A Hybrid Feature Selection Model for Early Prediction of Metabolic Syndrome", ICSADL 2025.