

T VINAY KUMAR

Tirupati, Andhra Pradesh

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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, OS, Debugging

Amazon

Amazon ML Summer School - Apprenticeship

09/2023 – 10/2023

- 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

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, 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

Intrusion Detection System (IDS)

11/2023

- 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.