

Isha Sri Prakash

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SUMMARY

Third-year Amrita Vishwa Vidyapeetham B.Tech student studying computer science and engineering who is driven and diligent with strong skills in algorithms, operating systems, computer networks, machine learning, and embedded systems. knowledgeable about full-stack development and Internet of Things systems, with practical experience in Python, C, C++, and Java. competent in applying technical knowledge to practical software and research projects, as well as in problem-solving and teamwork.

TECHNICAL SKILLS: Python, C, C++, Java, Data Structures & Algorithms, DBMS, Computer Networks, Machine Learning, Flutter (Dart), Node.js, Arduino Programming, Web & App Development

EDUCATION

AMRITA VISHWA VIDYAPEETHAM

GRADUATION YEAR- 2027

CGPA- 9.08

PROJECTS

V2X Intelligent Emergency Response System (Simulation)

August 2025 – Present

- Designed and simulated an emergency response system using Vehicle-to-Everything (V2X) communication to minimize response time after accident
- Implemented modules for automated collision detection, real-time hazard alerts, and dynamic traffic signal preemption
 - Created coupled simulation using **SUMO ,NS-3, TraCI in python** to integrate traffic flow and wireless reliability.

Driver-Conductor Shift Management App (Dart/Flutter)

2024

- Developed a mobile app for shift management of drivers and conductors with secure OTP and PIN-based login.
- Implemented backend integration for accurate attendance and work-hour tracking.

Secure Data Wipe Utility

2023

- Designed and implemented a secure data-wipe **utility** that performs multi-pass deletion to ensure permanent removal of sensitive files from storage devices.
- Integrated automated verification steps to validate successful overwrite operations and prevent data recovery using common forensic tools.
- Optimized the wiping process for faster execution on large files while maintaining security standards such as DoD-style overwrite patterns.
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OTHER: Attended Hackathons: Smart India Hackathon (2024- Optimized Bus Transportation, 2025-Secure Data-wiping), Completed an AWS Course. Certification in DSA course.