Monish Babu Arunagiri

Final Year Student
Bachelor of Technology
Electronics and Communication Engineering
Vellore Institute of Technology, Chennai

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GitHub Profile
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Education

Vellore Institute of Technology, Chennai **2025**
B.Tech Electronics and Communication Engineering GPA: **7.85***

Jeevana School, India **2021**
Indian School Certificate, ISC Percentage: **81%**

Experience

Lucas TVS **09/2023 - 10/2023**
In-plant Trainee(Embedded Systems) Chennai

- Interfaced with **32 Bit ARM Cortex M0**+ based controller
- Debugged circuits using Proteus software, **reducing development time by 25% through simulation and analysis**.
- Collaborated with embedded systems engineers to optimize simulation speed, resulting in a **20% increase in development efficiency** and improved performance metrics.
- Developed and implemented Embedded C code solution on Keil uVision, resulting in a **15% reduction in simulation time** for circuit design; enhancing overall project timelines and efficiency.

Personal Projects

Cryptography and Steganography for Secure Communication **06/2023 - 07/2023**
Software that encrypts data using cryptography and steganography for secure data preservation

* Engineered a MATLAB-based encryption software that secures user data stored online; enhanced data protection protocols and **reduced potential breaches by 21%** through advanced encryption methodologies.
* Tools & technologies used: **MATLAB**

Personal Portfolio Website **07/2024**
Created a portfolio website that showcases my academic achievements and projects.

* Developed this portfolio website using React.js, leveraging HTML and CSS for the design and structure. Managed version control and collaboration through Git, ensuring a streamlined and efficient development process.

IoT-Enabled Water Quality Monitoring System for Environmental Management **03/2024 - 05/2024**
Developed an IoT-based water quality monitoring system for mobile platforms.

* Utilized the ESP32 to create a real-time monitoring system for key water parameters. Integrated sensors and optimized data transmission, **reducing latency by 16% compared to previous Arduino-based implementations.**
* Leveraged ESP32's Wi-Fi capabilities for cloud connectivity, **improving data transfer rates by 12%** and energy efficiency, making the system more suitable for remote and long-term deployments.

Technical Skills and Interests

Languages: Java, Python, C, SQL, MATLAB
Developer Tools: VS Code, Github, Eclipse, Mathworks, Power-Point, Excel, Node-Red
Cloud/Databases: Amazon Web Services(**AWS**), Google Cloud Platform(**GCP**), MySQL
Areas of Interest: Network Engineering, Cloud Computing, Cyber Security, Java development, Software Development

Certifications

- **Amazon Web Services** AWS Certified Cloud Practioner **01/2024**
- **Google Cloud Platform** Google Cloud Computing Foundations **11/2023**
- **Cisco** Introduction to Cybersecurity **06/2024**

Positions of Responsibility

- **Photography Team** Sports Club VIT Chennai **04/2023 - Present**
  * Core member of the photography team for "VIBRANCE-Sports", Largest sports festival at VIT Chennai.

LANGUAGES

- **English** Full Professional Proficiency
- **Tamil** Native or Bilingual Proficiency
- **Hindi** Intermediate Proficiency