Amarjith D

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EDUCATION

Sona College of Technology

Salem, India

Electronics and Communication Engineering; CGPA: 8.1

September 2021 - May 2025

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SKILLS SUMMARY

C, JAVA, Python, SQL, Linux Languages:

Arduino Framework, YOLOv8, TensorFlow, Scikit-Learn, Streamlit Frameworks: Arduino IDE, ESP-32, Excel, PowerPoint, Tinkercad, Git, Burp Suite Tools:

Platforms: ThinkSpeak, Jupyter Notebook, Visual Studio Code, AWS

Protocols: TCP/IP, MQTT, HTTPS, UART, SPI, I2C, BLE, CAN, DNS, FTP, SSH Soft Skills: Leadership, Team Collaboration, Quick Learner, Effective communication

WORK EXPERIENCE

WEB DEVELOPMENT & NETWORKING INTERN

February 2025 - May 2025

- Gained hands-on experience with domain registration, DNS configuration, and server-side hosting processes.
- Explored the fundamentals of web protocols like HTTP, HTTPS, FTP, and SSL certificate setup during website deployment.
- Learned about IP mapping, HTTPS setup, and server behavior while deploying live websites.
- Understood the importance of secure networking and uptime monitoring in hosting environments, connecting concepts with Cybersecurity basics.
- o Contributed to live site configuration and maintenance (https://arunaudit.com) as part of the deployment team.

PROJECTS

Seizure Detection and Alert System using GSR Sensor | SIH'23

October 2023 - December 2023

- Designed a wearable health system to capture GSR data for seizure and stress detection.
- Integrated with Arduino and Blynk for cloud-based monitoring and alert generation.
- Enabled real-time mobile alerts on stress spikes, improving responsiveness by 80%.
- Validated across multiple test cases with an 80%+ success rate in identifying anomalies.

IV Pole Monitoring System with Vital Detection |

April 2024 - September 2024

- Built an ESP32-based smart IV pole with temperature and pulse oximeter integration.
- Enabled wireless transmission to ThingSpeak for remote patient monitoring.
- Reduced manual vital checks by 40% during clinical simulations. Thereby we have achieved and maintained 90% alert accuracy.

Smart Agriculture System with Cloud Connectivity |

October 2024 - January 2025

- Created a field-deployable IoT setup to monitor soil moisture, temperature, and humidity.
- Increased irrigation and detection efficiency by 35% using Blynk automation rules.
- Automated irrigation decisions were made based on sensor threshold logic. Delivered consistent data transmission and timely water delivery in all runs.

Coffee Leaf Disease Detection using YOLOv8 and Streamlit | Final Year Project

January 2025 - April 2025

- Built a real-time image-based detection system using YOLOv8 with ~90% accuracy on test data. Trained on annotated datasets featuring common diseases such as Coffee Rust, Leaf Miner, and Cercospora.
- Displayed top-3 predictions with confidence scores and Grad-CAM overlays for explainability.
- Evaluated model performance using a confusion matrix (Precision: 91%, Recall: 90%, F1-Score: 90.5%) to ensure classification quality.

CERTIFICATES

Internet Of Things (NPTEL) | CERTIFICATE

April 2023

Completed online certification focusing on IoT fundamentals, sensors, communication, and real-time applications.

Ethical Hacking (NPTEL) | CERTIFICATE

October 2023

Gained understanding of common threats, vulnerabilities, and penetration testing approaches in networks and systems.

Cloud Computing (NPTEL) | CERTIFICATE

August 2024

 Learned cloud architecture, deployment models, and services such as SaaS, PaaS, and IaaS with hands-on demos. Complete Guide to Build IoT Things (Udemy) | CERTIFICATE October 2024

Practical course on building IoT systems using Arduino, ESP32, and integrating with cloud dashboards.

AIG Shields Up: Cybersecurity Job Simulation Certificate (Forage) | CERTIFICATE

January 2025

 Understood enterprise cybersecurity frameworks and participated in threat modelling and policy creation scenarios. Google Cybersecurity Professional Certificate (Google) | CERTIFICATE

 Completed a comprehensive certification covering cybersecurity tools, frameworks, risk assessment, and hands-on lab simulations.