Neeraj Srinivasan

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Education

Vellore Institute of Technology, Vellore	2022 – Present
*B.Tech in Electronics and Communications Engineering with specialisation in Biomedical, **CGPA:** 8.51*	*Vellore, India*
DAV Boys Higher Secondary	2020 - 2022
High School, 91.2%	*Chennai, India*
Jawahar Vidhyalaya	2007 - 2020
Senior School, 92.4%	*Chennai, India*

Skills

Languages Known: English, Hindi, Tamil, Kannada, German*(Basics)*

Programming Languages: Java,C, Python, JavaScript, MATLAB, SQL

Softwares: Postman, Jupyter Notebooks, MATLAB, Visual Studio

Experience

Aries Technologies	June 2024 – July 2024
Embedded Programming Intern ·	*Coimbatore, India*

- Built a Qt-based GUI on the STM32MP7 running Yocto Linux for real-time ECG data visualization (simulated). Cross-compiled the interface and optimized rendering for embedded performance. Contributed to a component intended for integration into a larger medical-grade system.

RC Studios	Feb 2024 – May 2024
Full-Stack Developer ·	*Remote*

- Led the development of a livestream-focused OTT platform using Next.js, PostgreSQL, and Prisma on Vercel. Scaled backend infrastructure with NGINX to support high concurrent users. Delivered an admin dashboard for media uploads and basic studio content management.

Research Projects

Cloud based Smart Street Lighting System	June 2023 – Jan 2024

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- Developed a smart street lighting solution using ESP32 with PIR and LDR sensors for real-time motion and luminosity sensing. Integrated cloud-based control via MQTT for remote operation and energy analytics. System architecture emphasized modularity, embedded efficiency, and IoT scalability for urban deployment.

Smart Automated Irrigation System	Feb 2024 – July 2024

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- Designed and deployed an automated irrigation controller using soil moisture sensors, water level detection, GPS, and Bluetooth relay communication. Integrated a custom Flutter-based app and API, with findings published in the AIIoT Conference [Link].

Certifications

Machine Learning Specialization — Stanford University	**Data Science** — IBM
Cloud Computing — National Learning	**Software Testing** — National Learning

Awards

- **First Place** — Built AgroMetrics, a Flutter application for farmers (2023)
- **Runner-up** — HackWars (Best AI Implementation, 2025), Pixels and Paths (Design Competition, 2024)