

# Neeraj Srinivasan

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## EDUCATION

### Vellore Institute of Technology, Vellore

B.Tech in Electronics and Communications Engineering with specialisation in Biomedical, CGPA: 8.51

2022 – Present

Vellore, India

### DAV Boys Higher Secondary

High School, 91.2%

2020 - 2022

Chennai, India

### Jawahar Vidhyalaya

Senior School, 92.4%

2007 - 2020

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

Embedded Programming Intern ·

June 2024 – July 2024

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

Full-Stack Developer ·

Feb 2024 – May 2024

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

- 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

- 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)