SARAVANAKUMAR R

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SUMMARY

I am a motivated individual with a tech background and a passion for making a positive impact. My goal is to excel in a dynamic work environment using my unique personality, technical skills, and experiences.

EDUCATION

Bachelor of Engineering in Electronics & Communication Engineering   **Nov 2021 to Present**

Velammal Engineering College, Surapet, Chennai - 66

- **Minors in Full Stack Development** (CSE Department)
- **100% Attendance Holder** for 1st and 2nd year and participated in various inside & outside college events.

Secondary & Higher Secondary Education   **June 2017 to May 2021**

Sethu Bhaskara Matric Higher Secondary School, Pudur, Chennai - 53

- **12th Grade:** 87.4% (Physics, Chemistry, Biology, Maths, English, Tamil) (State Board, TN)
- **10th Grade:** 84.5% (State Board, TN)
- **100% Attendance** Holder on 10th, 11th and 12th grade and member of literary club, athletics.

SKILLS ACQUIRED:

- **Programming Language:** Python
- **Web Technologies:** HTML, CSS, Firebase, Git, GitHub, Azure
- **Microsoft Office:** Word, Excel, PowerPoint
- **Design Tools:** Figma, Canva

INTERNSHIP EXPERIENCE

Project Trainee, Bhabha Atomic Research Centre, Mumbai (On-Site)   **Jun 2024 to Aug 2024**

- Developed **muon track reconstruction** software utilizing Python, PyQt5, and scientific libraries, enabling simulation of up to **100+ drift tubes simultaneously** with **configurable drift tube arrays such stacks, rows, cols.**
- Created an **auto-calibration** feature that reduces **least squares error by up to 99.99%**, optimizing measured data against true values and wrote **optimization code** in this process.
- Designed an **real-time intuitive user interface** with **interactive visualization tool**s and **6 debugging options,** enhancing data analysis capabilities.

WRA Intern, National Institute of Wind Energy, Velachery (On-Site)   **Dec 2023 to Feb 2024**

- Developed impactful software tools including a **.dat to .csv converter** and **NIWE dashboard**, enhancing operational **efficiency by 30%**.
- Utilized **version control systems** to manage code effectively and collaborated with the NIWE team. Also created **comprehensive documentation** for newly created software tools.

PROJECTS (HIGHLIGHTS)

HydroSense (Final Year Project) | GITHUB   **https://hydrosense.pythonanywhere.com/**

A portable water contamination detection device designed to provide real-time monitoring and alerts for key contaminants.

Electrowiz'25 Website | GITHUB   **https://electrowiz.info/**

An automated Symposium website for registration, payments, QR code IDs, and attendance, streamlining event management and reducing manual effort.

SUBJECT OF INTEREST

- Software/Web development
- Artificial Intelligence

CERTIFICATION (HIGHLIGHTS)

- Microsoft Certified: **Azure Fundamentals, Feb 2023.**
- Microsoft Certified: **Azure AI Fundamentals, Mar 2023**

VOLUNTEERING ACTIVITIES

- **NSS volunteer (21-23) & Coordinator of NSS Technical Team (23-24)** at Velammal Engineering College.
- **Shelter Home Volunteer** at Bhumi (NGO), teaching Computer Science to shelter home kids.

ACHIEVEMENTS

- "**Winner - Velammal Hackathon 1.0**" with a prize of Rs. 5000 (Mar 2024),
- Third place in "**34th All India Essay Contest**" conducted by the Department of Atomic Energy with a prize of Rs. 15,000 (Oct 2022).
- "**State Level Award in National Children Science Congress**" conducted by TNSF (Feb 2021)