Bala Subramanian S

Location: Tirunelveli, TamilNadu, India
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FULL STACK DEVELOPER

As a passionate fullstack developer, I thrive on solving complex problems. With an insatiable curiosity and a love for challenges, I dive deep into every project, whether it's optimizing performance, troubleshooting bugs, or developing innovative features. My journey is all about continuous learning, and I'm driven by the desire to create meaningful solutions that make a difference.

TECHNICAL SKILLS

Languages	:	Python, C, Java, HTML, CSS, JavaScript, PHP
Frameworks	:	React.js, Express
Databases	:	SQL
Dev Tools	:	Visual Studio Code, Git

EDUCATION

Rose Mary Matric Hr. Sec. School Tirunelveli, TamilNadu, India
*Higher Secondary Education (**Percentage:** 96.16/100)* *2020 – 2022*

PSG College of Technology Coimbatore, TamilNadu, India
*B.E in Computer Science Engineering (AI&ML) (**Grade:** 8.41/10)* *2022 – 2026*
Coursework: Data Structures, Machine Learning, Database Systems, Software Engineering.

PROJECTS

Gains+ *React.js, PHP, SQL, Git* Source Code
- Created a web app **connecting trainers and gym users** for diet management and progress tracking.
- Integrated an **AI healthcare chatbot** to provide personalized dietary advice.
- Implemented attendance tracking features that allow trainers to monitor user participation and progress.
- Empowers users to optimize their fitness journeys through personalized nutrition plans, real-time tracking, and trainer support.

PSG4U *React.js, Django, SQLite, Git* Source Code
- Developed a college management web application with a CGPA calculator that displays the current semester CGPA.
- Implemented an ML model to predict upcoming Semester and CA test scores needed to achieve a higher CGPA.

Aura *React Native, Tailwind CSS, Flask, Git* Source Code
- Integrated OpenMeteo API to display real-time and past 7-day AQI data for Tamil Nadu districts.
- Developed AI models using Random Forest and Neural Networks to predict and classify air pollution-related health risks.
- Utilized Google Gemini AI to generate personalized risk assessments and preventive measures.

NetworX *React.js, Tailwind CSS, Express.js, Neo4j, Git* Source Code
- Developed a social networking platform with user authentication, enabling sign-up, sign-in, and access to a personalized dashboard.
- Implemented features for connecting with friends, viewing and sharing posts, and managing friend lists.

CERTIFICATIONS

- Web Development by John Hopkins
- Foundational C # with Microsoft

HOBBIES AND INTERESTS

- Passionate about fitness and health, Music.
- **Interests:** Machine Learning, Data Structures.