

John Prabu A

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EDUCATION

- **Madras Institute of Technology, Anna University** Chennai, India
B.Tech in Information Technology; CGPA: 8.26/10
Expected Graduation: Apr 2026
- **S.N.R Higher Secondary School** Sankarankovil, Tenkasi, India
Higher Secondary Education (12th Grade); Marks: 570/600
Graduated: May 2022
- **Angel High School** Sankarankovil, Tenkasi, India
High School Education (10th Grade); Marks: 489/500
Graduated: Mar 2020

PROGRAMMING SKILLS

- **Languages:** C, C++, Python, JavaScript, TypeScript, Java, C
- **Database Technologies:** MySQL, Oracle, MongoDB, Firebase
- **Version Control Tools:** Git, GitHub
- **IDEs and Editors:** Visual Studio Code, IntelliJ IDEA
- **Operating Systems:** Linux, Windows
- **Frameworks:** ReactJS, NodeJS, React Native, NextJS, wxWidgets
- **Cloud Computing:** AWS
- **Software Proficiency:** Microsoft PowerPoint, Excel, Word, Figma, Adobe Photoshop, Canva, Adobe Illustrator

PROJECTS

- **Event Management System** Developed a React Native app that connects users with nearby and personalized events. Utilizes feature extraction and similarity search with a self-hosted open-source vector embeddings model for event recommendations. Key features include event hosting, management tools for organizers, and real-time chat for attendee interaction.
Technologies Used: React Native, NodeJS, PostgreSQL, ExpressJS, TypeScript, Embeddings Engine
- **Foodie Heaven (A Food-Ordering App – Cross-Platform)** Developed a cross-platform food ordering app for iOS and Android using Expo and Supabase. The app allows users to browse menus, place orders, and track deliveries in real time.
Technologies Used: React Native, TypeScript, Expo Router, Supabase, REST APIs
- **File Manager Software (Cross-Platform GUI App)** Designed a file manager for Linux, Windows, and macOS using C++ and wxWidgets. The application features an intuitive GUI, allowing users to easily manage files, including drag-and-drop support and multi-window management.
Technologies Used: C++, wxWidgets, Object-Oriented Programming
- **Soil Minds (Crop Recommendation System)** Developed a system to assist farmers in choosing optimal crops and pesticides based on soil conditions and climate data. The application uses machine learning algorithms to provide personalized recommendations.
Technologies Used: ReactJS, NodeJS, SQL, Machine Learning, Data Analysis
- **Retail Shop Management System** Built a comprehensive management system to streamline retail operations, including inventory management, sales tracking, and customer management. The system features a user-friendly interface and robust reporting capabilities.
Technologies Used: HTML, CSS, JavaScript, PHP, MySQL
- **Water Quality Monitoring System** Created a monitoring system for assessing water quality using IoT sensors (pH, turbidity, temperature) with data visualization dashboards for real-time monitoring and historical data analysis.
Technologies Used: Python, Raspberry Pi, MQTT Protocol, Chart.js, Data Visualization

CERTIFICATIONS

- AWS Cloud Computing: AWS Cloud Computing & Cloud Infrastructure
- IIT Madras's WebDev Enigma Certification in Web Development
- The Complete 2024 Web Development Bootcamp - By Dr. Angela Yu (Full Stack Development)