

BERNARDO SALVA JR

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PROFESSIONAL SUMMARY

Passionate front-end developer skilled in creating responsive, user-friendly interfaces. Detail-oriented with a focus on polished designs and seamless functionality. Seeking front-end roles that leverage my problem-solving skills and creativity in building dynamic web experiences.

WORK BACKGROUND

Freelance IoT/Front-end Developer; (Philippines)

January 2024 – August 2024

- Transformed client ideas and requirements into a prototype by designing intuitive UI/UX using Figma.
- Developed functional, responsive, and dynamic web applications by translating Figma designs into fully interactive interfaces using React and Tailwind CSS
- Implemented data visualizations, such as line graphs, bar charts, and pie charts using Chart.js, to effectively track and display sensor value changes.
- Programmed ESP32 microcontroller to store sensor data in Firebase and enable remote device control, delivering real-time data access and control for enhanced IoT functionality.
- Configured a real-time SMS alert mechanism that sends SMS to users when predefined sensor value thresholds are reached, providing actionable instructions for timely responses.
- Integrate push notifications using Firebase Cloud Messaging to send real-time notifications when a sensor value threshold is reached and send weekly reminders to users.
- Deployed IoT web applications using Firebase Hosting with CI/CD integration for streamlined and automated updates.
- Used Git and GitHub for version control.
- Utilized a client-centered approach to problem-solving, gained a well-rounded understanding of requirements, and translating them into solutions aligned with user needs.
- Continuously engaging in learning evolving technologies and trends to keep up to date with industry standards.

PROJECTS

BEEWATCH – Smart Beehive Monitoring System

- Designed and implemented a comprehensive IoT solution for real-time monitoring of temperature and humidity in beehives, providing actionable insights for beekeepers.
- Built data visualization dashboards to track environmental conditions and trigger actions based on sensor readings, improving hive management efficiency.
- Enabled remote control and push notifications using Firebase, ensuring prompt notifications and better hive monitoring.

ENVIROMENTRIX

- Developed a smart plant monitoring system for multi-micro gardening, tracking real-time data on soil moisture, temperature, pH levels, and humidity using the ESP32 microcontroller.
- Designed a Progressive Web App (PWA) for seamless access across devices, ensuring a user-friendly experience.
- Utilized Firebase for real-time data management and push notifications, enabling users to respond quickly to plant care needs and optimize yield.

SKILLS

- Web Development:** HTML, CSS, JavaScript, React, Bootstrap, Tailwind CSS
- Programming Language:** C, C#
- Database:** MySQL, Firebase
- Version Control Tools:** Git and GitHub
- Design Tools:** Figma and Photoshop
- Languages:** Native Filipino Speaker; Proficient in English

EDUCATION

Mindoro State University – Mindoro | Bachelor of Science in Computer Engineering (BSCpE) | Mindoro, PH | July 2023

- GWA: 1.519 (Cum Laude)
- Thesis: E-SPLASH: Fishpond Solar-Powered Paddlewheel Aerator
- Relevant Coursework: Front-end Development, Web and Graphic Design, IoT Development, Software Engineering