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EDUCATION

APJ Abdul Kalam Technological University

Nov 2020 - Jun 2023

Bachelor of Technology in Electrical and Electronics Engineering

Kochi, Kerala

- **Relevant Coursework:** Microprocessor and Microcontroller, Java, Python, Digital and Analog Electronics, Power System, Embedded System, Electrical Drives and Control, Electrical and Electronic Circuit Design.

State Board of Technical Education

Apr 2017 - Apr 2020

Diploma in Electrical and Electronics Engineering

Wayanad, Kerala

- **Relevant Coursework:** Microcontrollers and Programmable Logic controllers, C++, Embedded C, Digital Electronics and Microprocessors, Embedded System, Network Analysis and Synthesis..

TECHNICAL SKILLS

Programming Languages: C, C++, Java, SQL, PL/SQL, Python, JavaScript

Frameworks and Tools: Spring Boot, React.js, Git, VS Code, Postman, ECAD, Proteus, Altium, Figma, MATLAB

Embedded Systems & IoT: ESP8266, ESP32, NRF24L01, RP2040, ATmega328p, ATtiny, Raspberry Pi, LoRa, PLC

EXPERIENCE

Oracle

Aug 2023 – Present

Software Development Engineer | Associate Consultant

Bangalore, India

- **New Functionality Development and Business Logic Implementation:** Implemented business logic enhancements for client banks by updating the internal framework's UI (JS, HTML) and backend (PL/SQL, Spring Boot). Delivered 20+ feature additions and automated tasks with less than 1 week average turnaround and high client satisfaction.
- **Process Automation and Efficiency Improvement:** Designed and developed an internal tool, FRAME - a code-base management system integrated with a Spring Boot backend, to automate routine development workflows and improve team efficiency by around 80%.
- **Web service Development and Integration:** Developed code for new GEFU functionality which executes logic through web services. This enabled the bank to upload thousands of records as batch.
- **Production and Test Environment Support:** Successfully debugged, solved, and tested over 60+ production and test environment (UAT) issues raised by the client, ensuring a 99.9% up-time.

Neo-Thermal AI Innovations LLP

Jan 2022 – Mar 2022

Electronic Design Software Intern

Mumbai, India

- Played a key role in developing a multi-rotor drone, drone docking system and wireless power transfer system.
- Handled firmware development and PCB design from scratch based on MPPT power management on Altium Designer.

PROJECTS

UHF RFID - Integrated ERP Platform | *Spring boot, Tomcat, Hibernate, JWT, PL/SQL, React JS, RFID module*

- Designed an offline-resilient ERP system leveraging UHF RFID with Slotted ALOHA protocol for real-time inventory tracking, automated item validation, and secure multi-role access.
- Deployed with a scalable, cloud-integrated architecture with secure SQL backend storage and SQLite local backup, designed for cross-platform compatibility on Windows, Linux, macOS, and Android.

OneDialect - Assistive Communication Device | *C++, Python, ATmega328p, Raspberry Pi, HC-05, Haptic Module*

- Designed and developed an AVR-SBC-based assistive communication system using Morse code for individuals with hearing and speech impairments.

Surface Mounted Power Bank With Swap Charge Technology | *ATtiny85, SMD technology, Proteus, Arduino*

- Developed a compact power bank using SMD components that clips onto phones, providing automatic charging with advanced safety features and a modular interface.

DC Machines Overload & Over Voltage Protector | *C++, ATMEGA328p, I2C, LCD, Encoder, ACS712, SMPS*

- Contributed to the development and implementation of a DC Machines Overload & Overvoltage Protector, designed to safeguard DC machines from overloads, overvoltage, and short circuits. The system features a console UI and EEPROM storage for enhanced monitoring and data retention.