ABHINAV U

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PROFESSIONAL SUMMARY

Computer Science Engineer passionate about building solutions using React Spring Boot. Developed BHUB 30% engagement boost and IoT Smart Irrigation System 40% water savings. 2nd place in debugging competitions. Certified Full Stack Developer with proven collaboration skills leading 4-member teams. Committed to creating efficient, user-centric applications.

TECHNICAL SKILLS

Programming Languages: C, Java, Python, PHP, JavaScript
Web Development: ReactJS, HTML, CSS, Tailwind CSS, Bootstrap, Material UI
Back-End: Spring Boot, SQL, PostgreSQL, Maven
Tools & Platforms: Git, GitHub, PostgreSQL

PROJECTS & EXPERIENCE

BOOK UPLOADING AND READING PLATFORM - BHUB

Apr 2023 - Jun 2023

- Led a team of 4 to design and develop an all-in-one book platform for browsing, reading, and purchasing books.
- Built a unified author and reader interface, reducing content upload time by 40% and decreasing support tickets by 25%.
- Implemented a review and rating system with comment support to boost trust and feedback quality.
- Integrated paid and free book access with secure content delivery and access control.
- Developed a "Similar Books" recommendation system based on genre and tags.
- Enhanced user retention by 30% through an intuitive, mobile-responsive UI and simplified user journey.
- Ensured robust data storage using MySQL and seamless backend logic with PHP.

IoT ENABLED SMART IRRIGATION SYSTEM

Nov 2023 - Mar 2024

- Developed a full-stack irrigation system using ReactJS and Spring Boot, reducing water waste by 40% through real-time automation.
- Programmed ESP32 microcontrollers via Arduino IDE to capture sensor data (soil moisture, temperature, humidity, water flow).
- Enabled real time data transfer using WebSocket and HTTP requests for sensor communication and actuator control.
- Built interactive dashboards for real-time and historical monitoring (daily, weekly, monthly) using PostgreSQL for data storage.
- Implemented manual and automatic control modes, sending HTTP triggered valve commands to MOSFET controlled modules.
- Visualized sensor trends via dynamic graph plotting, improving decision making for users and system efficiency.

EDUCATION

Bachelor of Technology in Computer Science and Engineering Nov 2021 - Apr 2025

University College Of Engineering, Thodupuzha

- CGPA: 7.2/10

Higher Secondary Education in Biology Science Jun 2019 - Mar 2021

Rajeev Gandhi Memorial H S S, Mokeri

- Marks: 93.4 %

CERTIFICATIONS

- Full Stack Development (React.js, Node.js) • May 2024

ACHIEVEMENTS

- 2nd Place, Debugging Competition (2023): Fixed C program errors in < 30 mins.