

# ADARSH C

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GitHub: <https://github.com/ADK-07>

## PROFESSIONAL SUMMARY

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Computer Science Engineer committed to delivering innovative solutions using HTML, CSS, JavaScript and React. Developed **BHUB** (book-sharing platform) and an **IoT Smart Irrigation System** (40% water waste reduction). Dedicated to developing automation and scalable solutions

## TECHNICAL SKILLS

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- **Frontend:** React.js, HTML5, CSS3, Bootstrap, Tailwind CSS, JavaScript
- **Tools and Platforms:** Git, GitHub
- **Backend:** SQL, PostgreSQL
- **Programming Languages:** C, Java, Python, JavaScript, PHP

## PROJECTS & EXPERIENCE

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### BOOK UPLOADING AND READING PLATFORM – BHUB

| April 2023 – June 2023

- Led a team of 4 to build a PHP-based platform for browsing, rating, and purchasing books.
- Boosted user engagement through intuitive design.
- 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.

### IoT ENABLED SMART IRRIGATION SYSTEM

| November 2023 – March 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

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**Bachelor of Technology in Computer Science and Engineering**  
**University College of Engineering, Thodupuzha**

Nov 2021 - Apr 2025

- GPA: 6.55/10

**Higher Secondary Education in Biology Science**  
**Rajeev Gandhi Memorial H S S, Mokeri**

Jun 2019 - Mar 2021

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## CERTIFICATIONS

- Full Stack Development Bootcamp (React.js, Node.js) • March 2025

## EXTRACURRICULARS

- Volunteer, Arts Fest 2022: Coordinated 10+ college events.