

MANU BABYCHAN

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SUMMARY

Enthusiastic and innovative Computer Science Engineering graduate with a strong foundation in software development, mobile app design, and system integration. Experienced in Flutter-based development and passionate about creating efficient, user-centric digital solutions. Highly adaptable, collaborative, and committed to continuous learning in dynamic tech environments.

CORE COMPETENCE

- **Programming Languages & Frameworks:** Java, JavaScript, Dart, Flutter, C, Python
 - **Web & Mobile Development:** HTML5, CSS3, Android Studio, Responsive UI Design, Figma
 - **Database Management:** MySQL, PostgreSQL, Firebase, MongoDB (basic)
 - **Methodologies & Concepts:** Agile/Scrum, Object-Oriented Programming, Data Structures & Algorithms
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EDUCATION

Bachelor of Technology in Computer Science & Engineering
TKM Institute of Technology, Kollam | 2021 – 2025 | CGPA: 5.33

- Covered core subjects including **Artificial Intelligence, Data Structures & Algorithms (C), Object-Oriented Programming (Java), Database Management Systems**, and **Web Development**.
- Gained practical exposure to project management using **Agile and waterfall methodologies**

Higher Secondary Education (Science Stream)
Rahmania HSS, Calicut | 2019 – 2021 | PERCENTAGE: 89.3%

- Studied core subjects including **Computer Science, Mathematics, Physics, and Chemistry**, with a strong foundation in logic building and basic programming concepts.
 - Gained early exposure to **C++ programming, data structures, and computer fundamentals**, fostering an interest in software development and technology.
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PROJECT

College Canteen Android App - [Link](#)
Technologies: Flutter, Firebase, Razorpay, Android Studio, Shorebird OTA, QR Scanner

Developed a feature-rich Android application to streamline our college canteen operations. The app includes admin and user modules, secure authentication with Firebase, real-time product management, integrated Razorpay paymentgateway, and QR code-based order verification. It also supports OTA updates using Shorebird and provides business insights for admins.

Smart Water Level & Quality Monitoring System - [Link](#)

Technologies: Android, Sensors, Firebase

Engineered an IoT-enabled system for real-time water level and quality monitoring using pH, turbidity, and conductivity sensors. Integrated object detection via camera module, Firebase authentication, and a live dashboard on a Flutter-based Android app. Enabled real-time alerts and cloud-based data storage with Thingspeak.

TECHNICAL PROFICIENCY

- **Languages & Tools:** C, Python, Dart, HTML & CSS
 - **Frameworks & Platforms:** Flutter, Firebase
 - **Design & IDEs:** Figma, Android Studio, Visual Studio Code
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CERTIFICATION

- UI/UX Design using Figma
 - App Development using Flutter
 - Full Stack Web Development Workshop | *NIT Calicut*
 - Flutter Workshop | *TKMIT, Kollam*
 - Internship in Python | *Soften Technologies*
 - Industrial Visit | *Innoval Digital Solutions Pvt. Ltd*
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SOFT SKILLS

- Effective Communication
 - Adaptability in Dynamic Environments
 - Collaborative Teamwork
 - Analytical Problem-Solving
 - Strong Time Management
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CAREER PROGRESSION & LEARNING

- Learning full-stack web development using MongoDB, Express.js, Angular, React.js, and Node.js (MERN & MEAN stack).
- Building dynamic web applications with RESTful APIs and real-time database integration using MongoDB and Node.js.
- Developing responsive user interfaces with React.js and Angular, focusing on component-based design and smooth frontend-backend interaction.