

BALAKRISHNAN R

6382028774 | balakrishnan.rs411@gmail.com | github.com/bala05042002 | krishr.netlify.app |
linkedin.com/in/bala-krishnan-36bb862a8/

PROFESSIONAL SUMMARY

Detail-oriented and driven Master of Computer Applications (MCA) candidate graduating in May 2025, with hands-on experience developing scalable web and mobile applications. Strong foundation in full-stack JavaScript development using the MERN stack (MongoDB, Express.js, React.js, Node.js), React Native, and Tailwind CSS. Skilled in building responsive UIs, implementing secure REST APIs, and deploying performant applications. Proficient with Git-based workflows, and cloud platforms including Vercel, Netlify, and Render.

Demonstrated ability to leverage AI tools like ChatGPT to troubleshoot issues, streamline tasks, and improve code quality. Eager to contribute technical and creative skills in a collaborative, fast-paced development environment.

TECHNICAL SKILLS

Frontend: HTML5, CSS3, JavaScript (ES6+), React.js, Tailwind CSS

Backend: Node.js, Express.js

Database: MongoDB (NoSQL)

Mobile Development: React Native

Tools & Platforms: Git, GitHub, VS Code, Firebase, Netlify, Render

PROFESSIONAL PROJECTS

Restaurant Self Food Ordering Website

January 2025 – February 2025

Food Ordering Project

MERN Stack

- Developed a QR code-based ordering solution for restaurant tables to enable contactless service.
- Built a real-time admin dashboard for dynamic menu management, reducing manual updates by over 70%.
- Integrated Razorpay to handle both digital and in-person transactions.
- Optimized User Interface for ease of use and improved order processing speed by 40%.
- Designed the system to scale and support 50+ active tables simultaneously.

Medical App with Appointment Booking

February 2025

Medical Application

React Native, Node.js, MongoDB

- Created a mobile healthcare application for booking appointments with 100+ doctors across 50+ hospitals.
- Integrated an AI chatbot to manage basic queries, reducing manual support needs by 60%.
- Implemented features like medicine lookup and daily health news to increase user retention by 30%.
- Introduced a Rs.50 token-based prepayment feature, cutting down no-shows by 20%.
- Ensured performance consistency across Android and iOS using a unified code base.

Real-Time Chat Application

March 2025

Chat App

React.js, Firebase

- Developed a one-on-one chat platform with real-time messaging and synchronization.
- Used Firebase Authentication and Firestore to manage users and messages securely.
- Enabled live user search functionality for immediate chat initiation.
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- Scaled the backend to support more than 100 concurrent users.

WORK EXPERIENCE

Self-Initiated Internship – Full Stack Web & Mobile Development <i>MongoDB, Express.js, React.js, Node.js, React Native, Tailwind CSS, Git, Firebase</i>	January 2024 – June 2024 <i>YouTube, Open Source Projects</i>
<ul style="list-style-type: none">• Designed and deployed over six web and mobile applications using the MERN stack and React Native.• Implemented JWT-based authentication and full CRUD operations with MongoDB.• Maintained consistent UI across Android and iOS platforms, achieving 95%+ design accuracy.• Reduced integration issues by 40% using Git feature branches and pull requests.• Practiced Agile methodologies including sprints and iterative development cycles to boost delivery speed by 35%.• Deployed high-performance apps with under 1-second load times using Netlify, Vercel, and Render.• Used AI tools like ChatGPT to streamline debugging and enhance code quality by 30%.	

EDUCATION

Government Arts College <i>M.C.A - Master of Computer Applications</i>	Kumbakonam, TN <i>August 2023 – May 2025</i>
A.V.V.M Sri Pushpam College <i>B.C.A - Bachelor of Computer Applications</i>	Thanjavur, TN <i>June 2019 – May 2022</i>

CERTIFICATIONS

- MERN Stack Developer - SimpliLearn
- React Native Developer - SimpliLearn