Bijo K Binoy

Full Stack Developer

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LinkedIn ◇ Portfolio ◇ GitHub

SUMMARY

Innovative Full Stack Developer and BCA student with a focus on building AI-driven web applications. Proficient in the MERN stack and Python, with hands-on experience in computer vision (OpenCV) and microservices deployment. Proven ability to integrate complex machine learning models into responsive web platforms. Eager to leverage technical expertise in full-stack development and AI to contribute to a forward-thinking engineering team.

SKILLS

Programming Languages   JavaScript, Python, PHP, Java, C++, C
Frontend Development   React, HTML, CSS, Bootstrap, Tailwind, AJAX
Backend & Databases   Node.js, Express.js, FastAPI, Django, MongoDB, PostgreSQL, MySQL, SQLite
AI & Computer Vision   CNN(MoblieNetV2), OpenCV, Gemini API
Web APIs   Web Speech API, Speech Synthesis API, REST APIs
Tools & Devops   Git, GitHub, Vercel, Render, MongoDB Atlas, JSON, DSA
Languages   English, Malayalam, Tamil, Hindi

PROJECTS

Sahayatri: AI-Powered Heritage Preservation & Tourist Guide Link
- Architecture: Developed a Microservices ecosystem using MERN (React, Node.js) and a Python AI service.
- AI & CV: Engineered a CNN (MobileNetV2) and OpenCV system for automated monument crack detection and preservation.
- Interactive Features: Integrated Gemini AI for analysis and Web Speech API for a real-time voice-enabled tourist guide.
- ASI Dashboard: Built a live health monitoring dashboard for the Archaeological Survey of India using Socket.io.
- Deployment: Orchestrated full-cycle deployment across Vercel, Render, and MongoDB Atlas.

Food Delivery Platform Link
- Full-Stack: Built an end-to-end delivery platform using the MERN stack (MongoDB, Express, React, Node.js).
- Feature Set: Developed real-time cart management, secure user authentication, and dynamic menu systems.
- State Management: Utilized modern React hooks and state management to ensure a seamless, high-performance user experience.

Movie Booking Platform Link
- Backend: Built a robust booking engine using Python Django and PostgreSQL featuring multi-user roles (Admin, Theater Owner, User).
- Database: Designed complex relational schemas for real-time show scheduling and secure seat management.

Al-Powered Resort Website Link
- Developed a full-stack, dynamic resort website using PHP and MySQL to manage room listings, user accounts, and booking information.
- Integrated an Al-powered chatbot to provide 24/7 customer support, answer frequently asked questions, and assist with booking inquiries.
- Implemented AJAX and JSON to create asynchronous features, such as real-time room availability checks and form submissions without page reloads.

JavaScript Typing Speed Test Link
- Developed a web application to measure and analyze user typing speed using HTML, CSS, and vanilla JavaScript.
- Implemented keydown and input event listeners to track user input in real-time and compare it against a sample text.
- Engineered the core logic to calculate and display key metrics, including Words Per Minute (WPM) and accuracy percentage.

EDUCATION

Bachelor of Computer Application in Bachelor of Computer Applications, N S S College   Present
Rajakumari   Rajakumari, India
- Maintained an aggregate of over 65% across all semesters of the BCA program.

Higher Secondary Certificate in Higher Secondary Certificate, St. Mary's School (GPA: 86%)   2021 — 2022
Murickassery, India
- Achieved 86% overall in HSC examinations.

SSLC, St.George HSS Parathode (GPA: 95%)

<div align="right">2020 — 2020
Parathode, India</div>

- Achieved 95% overall in SSLC examinations.

CERTIFICATIONS

JavaScript Basics for Beginners, Udemy   Jan '25

Git and GitHub, Coursera   Jul '25

EXPERIENCE

FreeLancer   2025 — 2026

Full Stack Developer   Kerala, India

- Technical Solutions: Developed and deployed scalable applications using MERN, Django, and FastAPI, integrating custom AI & Computer Vision models for clients in tourism and e-commerce.
- Creative & DevOps: Delivered end-to-end services including UI/UX design, branding, and full-cycle cloud deployment on Vercel and Render.

VOLUNTEERING

3 Year Representative, NSS College Rajakumari

<div align="right">Rajakumari
2025 — 2026</div>

NSS Volunteer, (National Service Scheme)NSS College Rajakumari

<div align="right">Rajakumari
2023 — 2026</div>