

Bharathi B

Software Developer

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CAREER OBJECTIVE

Software Developer and Information Technology undergraduate (B.Tech) with robust expertise in Java and full-stack web architectures. Demonstrated track record of delivering end-to-end applications and AI-integrated tools through industry internships and competitive national-level hackathons. Skilled in bridging secure backend logic (Java, Node.js) with modern web technologies (React.js, JavaScript) to engineer scalable, high-performance software solutions.

INTERNSHIP EXPERIENCE

03/2026 – Present Tiruchirappalli, India	Pagalava Data Analytics Private Limited AI/ML Engineering Intern - Built a U-Net deep-learning model for Tear Meniscus Height (TMH) detection to support dry-eye screening, reaching ~90% accuracy (0.96 AUC). - Optimized the trained model and deployed it as a real-time cloud API using Hugging Face Spaces (Gradio) for integration with a mobile client.
06/2025 – 07/2025 Coimbatore, Tamil Nadu	Accent Techno Soft (ATS) Full Stack Web Development Intern - Built and styled responsive web pages using React.js and connected them to Node.js backend APIs. - Fixed UI and functional bugs and tested features, collaborating with the team through Git/GitHub in an Agile workflow.

EDUCATION

2023 – 2027 Trichy, Tamil Nadu	Bachelor of Technology in Information Technology Kongunadu College of Engineering and Technology
2022 – 2023 Namakkal, Tamil Nadu	Higher Secondary (Computer Science) The Modern Academy Matric Higher Secondary School

CORE TECHNICAL SKILLS

Programming & Software	Database	Tools & Platforms
- Java - Python - JavaScript - HTML, CSS	- MongoDB - SQL - Firebase Realtime Database - Firebase Firestore	- Git & Github - VS Code - Postman - Vercel

PROJECTS

08/2025 – 11/2025	SafeRoute-AI — Accident Risk Mapping FastAPI, scikit-learn, Leaflet.js, Gemini - Built a Random Forest model (Python, scikit-learn) that scores how risky a route is from past accident-zone data and suggests safer paths. - Created a live Leaflet.js map dashboard with GPS tracking, voice safety alerts, and AI-generated route briefings using the Gemini API.
10/2025 – 02/2026	FarmingAssist — AI Crop Advisory App Flutter, Dart, Firebase, Google Gemini API - Developed a cross-platform mobile app that gives farmers crop advice based on soil and weather data using the Gemini API. - Designed it offline-first with local storage and background cloud sync, so advice stays available even with poor connectivity.

PUBLICATIONS

07/2025	Smart Home Automation: Intelligent Control for Modern Living International Journal of Scientific Research & Engineering Trends (IJSRET) - Co-authored a research paper proposing an IoT-enabled smart home automation system using ESP32, Firebase, and React Native. The system supports secure real-time monitoring, remote device control, voice commands, and cloud integration for intelligent home automation. - DOI: doi.org/10.5281/zenodo.17301332
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ACHIEVEMENTS & COMPETITIONS

04/2026	Top 10 Finalist AMD Slingshot 2026 Regional Demo Day (AMD India)
04/2026	Grand Finalist AMTZ MedTech Hackathon (Open Innovation Track)
12/2025	Grand Finalist India International Science Festival (IISF) S&T Hackathon
02/2025	Participant IMPACTX 3.0 SDG Hackathon
11/2025	Participant IIC Regional Meet, MoE Innovation Cell (AICTE)

CERTIFICATIONS

Front-End Web Developer Infosys Springboard, May 2025.	MongoDB for Students MongoDB University, July 2025.
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