

DINESH BALAJI K

Full Stack Developer | MERN & PHP | AI/LLM Integration

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PROFILE

Full Stack Developer with production experience across React.js, Vue.js, Node.js, Express.js, PHP, Python (Flask), MySQL, and MongoDB. Built and shipped systems that reduced page load time by 30%, cut manual operational effort by 40%, and increased user engagement by 25%. Combines hands-on engineering with proven technical leadership — directed a 350+ participant GenAI hackathon and has actively contributed to departmental technical activities as a student representative. Currently deepening MERN stack expertise through an advanced training program at Besant Technologies, Chennai, while pursuing B.Sc. Computer Science at The American College, Madurai.

Motivated by solving real-world problems through technology — from designing responsive interfaces to architecting secure backends, RESTful APIs, and efficient databases. Presented on emerging topics including Blockchain, Cryptocurrency, Large Language Models, and Sustainable Environment at technical and paper-presentation events, and has mentored peers and juniors through departmental seminars, workshops, and hackathons.

TECHNICAL SKILLS

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

Backend: Node.js, Express.js, PHP, Python (Flask), REST API Design, Authentication & Middleware

Databases: MySQL (Schema Design, Normalization, Indexing, Joins), MongoDB (Mongoose, Aggregation)

Tools & AI: Git/GitHub, Postman, Vercel, VS Code, LM Studio (Local LLM Inference), Prompt Engineering

EXPERIENCE

Full Stack Intern — Dividend Screen (Remote)

Apr 2025 – Jun 2025

- Developed front-end interfaces and back-end REST APIs using JavaScript, PHP, and MySQL, reducing page load time by 30%.
- Built dynamic content modules for user-facing applications that increased engagement by 25% and improved session duration.
- Delivered core Interface Design and Backend Development work, commended by mentor for diligence and professionalism (Certificate of Internship).

Freelance Full Stack Developer — Surya Cotton Textiles (Remote)

Sep 2025 – Dec 2025

- Delivered a production e-commerce platform (sales.surycotton.com) serving 100+ product SKUs with a responsive, cross-device UI.
- Engineered the MySQL schema and PHP REST API for catalog, inventory, and order management, cutting manual effort by ~40%; integrated a secure payment gateway with transactional back-end logic.

Lead Organiser — GenAI Hackathon 2K26, School of Computer Science, The American College

Feb 2026

Dec 2025 –

- Directed a hackathon (15 Dec 2025 – 9 Jan 2026, Grand Finale 17 Feb 2026) for 350+ participants across 80+ teams with zero infrastructure downtime, from project charters through to the Grand Finale.
- Built and presented a full-stack AI solution alongside organisational duties; awarded the Certificate of Leadership and Service and a ₹3,000 Amazon gift voucher.

Batch Representative & UG Association Member — Department of Computer Science, The American College

2023–2026

- Represented the batch as a liaison between students and faculty; co-organized seminars, workshops, and technical hackathons as a member of the Undergraduate Association.

- Mentored classmates and juniors on technical and academic matters; presented on Blockchain, Cryptocurrency, Large Language Models, and Sustainable Environment at departmental and paper-presentation events, winning multiple first prizes.

PROJECTS

Omnium — AI-Powered Study Assistant — *Python, Flask, LM Studio*

Built a Flask REST API that structures raw syllabus text through a local LLM pipeline into topic-by-topic JSON study plans, enabling offline AI inference with no third-party API dependency.

Fitness-Pro — Fitness Tracking Platform — *Vue.js, Flask, MongoDB*

Architected a full-stack tracker with a Vue.js frontend and Flask backend; modeled workouts, meals, and goals in MongoDB for flexible schema management, deployed on Vercel with sub-second load times.

EduCMS — Course Management System — *Python, MySQL*

Designed a normalized MySQL schema and role-based backend APIs for course creation, enrollment, and content access, reducing administrative overhead through automated workflows.

Socon — Full-Stack Web Application — *PHP, MySQL*

Built a session-managed PHP application with parameterized MySQL queries, CRUD operations, and dynamic content generation, secured against SQL injection.

EDUCATION

B.Sc. Computer Science — The American College, Madurai, TN

Jun 2023 – May 2026

CGPA: 7.9 / 10 (Core Subjects) • Autonomous institution affiliated to Madurai Kamaraj University, NAAC Grade "A+"

Higher Secondary Education (Computer Science) — Pansy Vidyalaya Matriculation HSS, Madurai Jun 2022 – May 2023

CERTIFICATIONS & ACHIEVEMENTS

- Certificate of Leadership and Service — GenAI Hackathon 2K26, School of Computer Science, The American College, Madurai (2026); awarded with a ₹3,000 Amazon gift voucher.
- Certificate of Internship — Full Stack Developer, Dividend Screen (Apr – Jun 2025).
- Kalvi Technology Specialist — Full Stack Web Development, Kalvi Higher Education and Research Institute (Dec 2024 – Mar 2025).
- Selected, Besant Campus Connect Incubation — Besant Technologies, Chennai: 3-month Full Stack, AI, Data Analytics & Cloud Computing track (2026).
- MERN Stack Development (Advanced, Ongoing) — Besant Technologies, Velachery, Chennai.
- MERN Stack Development — Win Institute, Madurai (2025).
- React Native for Mobile Development — Win Institute, Madurai (Ongoing, 2026).