

# VISHNU K

Frontend Developer | React | Full-Stack & DevOps

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## PROFESSIONAL SUMMARY

Frontend Developer and MCA candidate (Advanced Cloud Technologies) with hands-on experience building responsive, component-based web interfaces using React, HTML5, CSS3, Flexbox, and CSS Grid. Skilled in integrating RESTful APIs into dynamic frontends and delivering consistent, cross-browser-compatible UI across real deployed projects including two live college websites. Backed by a solid full-stack and DevOps foundation — Django, Flask, Docker, and CI/CD pipelines — enabling seamless frontend-to-backend collaboration and faster debugging cycles. Hackathon winner and published co-author; eager to contribute clean, maintainable frontend code in a production team.

## TECHNICAL SKILLS

<b>Frontend</b>	HTML5 · CSS3 · Flexbox · CSS Grid · React (Intermediate) · Next.js (Basic) · JavaScript · Tailwind CSS · Bootstrap · Material UI
<b>UI / Design</b>	Responsive Design · Figma (Basic–Intermediate) · Layout, Spacing & Alignment · Cross-Browser Compatibility
<b>Backend</b>	Python · Django · Flask · Node.js · RESTful APIs · Microservices Architecture
<b>Auth &amp; Security</b>	JWT · OAuth · RBAC · Keycloak · AES-256 · TLS
<b>DevOps &amp; Cloud</b>	Docker · CI/CD (GitHub Actions, Jenkins) · AWS · GCP · Kubernetes · Serverless
<b>Databases</b>	MySQL · SQLite · MongoDB · Redis
<b>Tools</b>	Git · GitHub · Postman · Linux

## INTERNSHIP EXPERIENCE

**Python Django Backend Intern** • Luminar Technolab, Kochi

Jan 2025 – Apr 2025

- Built and tested RESTful API endpoints using Django REST Framework; validated API responses with Postman to ensure correct data contracts for frontend consumption.
- Implemented backend authentication flows (JWT, session management) and RBAC logic, deepening practical understanding of how frontends handle token-based protected routes.
- Worked within Django MVC architecture, gaining experience with full request-response cycles, middleware, and ORM-based data handling that directly informs efficient frontend-backend integration.

## FEATURED PROJECTS

**FixitNow – Home Service Marketplace** | *Django · REST API · MySQL · Bootstrap · Razorpay · CSS3* [GitHub](#) 

- Developed a multi-role service booking platform with a responsive Bootstrap + CSS3 frontend, implementing mobile-first layouts using Flexbox for consistent display across mobile, tablet, and desktop viewports.
- Built reusable UI components for service listings, booking cards, and role-specific dashboards, reducing template repetition and improving UI consistency across customer, provider, and admin views.
- Integrated Razorpay REST API for the payment flow, designing a clear UX sequence with loading states and confirmation messaging to reduce drop-off at checkout.
- Implemented RBAC-driven dynamic view rendering so each user role sees contextually relevant interface elements, keeping the UI clean and reducing cognitive overhead.

**Smart E-Commerce – Microservices Full-Stack** | *React · Tailwind CSS · Flask · MySQL · RabbitMQ · Docker*

[GitHub](#) 

- Built the frontend in React with Tailwind CSS, structuring the UI into reusable components (ProductCard, CartPanel, DiscountBadge) to enable component-based architecture and consistent UI across the application.
- Implemented CSS Grid-based product listing layouts that adapt cleanly from single-column mobile views to multi-column desktop grids, maintaining visual alignment and spacing consistency throughout.
- Integrated REST APIs from five independent microservices (Inventory, Cart, Payment, Discount, Orders), managing async data fetching, loading states, and error handling within React component lifecycle.
- Containerised all services with Docker, enabling consistent local and production environments; CI/CD-aware architecture means frontend build and deploy steps are decoupled from backend service updates.

**Secure Health API – Microservices & Security** | *Flask · MySQL · Keycloak · Docker · Jenkins · JWT · AES-256*

[GitHub](#) 

- Designed clean RESTful API contracts with structured JSON responses, enabling straightforward frontend integration and reducing ambiguity during UI development.

- Implemented JWT authentication and Keycloak RBAC, producing a reference backend that mirrors real-world token-based auth patterns consumed by React applications using protected routes.
- Automated deployment via Jenkins CI/CD pipeline with Docker, achieving consistent environment parity between development and production, a key factor in preventing frontend-environment bugs.

### **LEAD College – Official Website (Live: [lead.ac.in](http://lead.ac.in))** | WordPress · PHP · Bootstrap · CSS3 · Responsive Design

- Designed and deployed the live institutional website with a fully responsive layout using Bootstrap Grid and CSS Flexbox overrides, tested for cross-browser compatibility across Chrome, Firefox, and Safari.
- Built reusable page templates for events, news, and department pages, maintaining uniform typographic scale, spacing, and colour usage across all sections for visual consistency.
- Integrated WordPress CMS to allow non-technical staff to update content without disrupting the front-end layout, demonstrating practical understanding of separation between content and presentation layers.

### **St. Thomas College Konni – Official Website (Live: [stthomascollegekonni.com](http://stthomascollegekonni.com))** | PHP · HTML5 · CSS3 · Responsive Layout

- Built and deployed the live college website using semantic HTML5 and custom CSS3, with a responsive layout that adapts to mobile, tablet, and desktop screens without relying on a UI framework.
- Established a consistent visual structure across all pages through a shared typographic hierarchy, uniform spacing rhythm, and coherent link and button styling, reducing visual inconsistency across page types.
- Optimised static asset loading and image sizing to improve page load performance, demonstrating awareness of frontend performance fundamentals in a real deployed environment.

## **OTHER PROJECTS**

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**AI Movie Recommendation System** (Python · Flask · Scikit-learn · TF-IDF · React · TMDb API) [GitHub](#)

**AI Personal Physical Trainer** (Python · Flask · REST API · Prompt Engineering · LLM API) [GitHub](#)

**Resume Parser & Skill Extraction** (Python · Flask · NLP · Regex · ML Classification) [GitHub](#)

**Smart OPD System (Hackathon Winner 2024)** (Flask · MySQL · HTML · CSS · Bootstrap) [GitHub](#)

**Blood Bank Management System** (Flask · REST API · MySQL · React) [GitHub](#)

**TaskFlow – Task Management App** (Python · Flask · REST API) [GitHub](#)

**Future Predictor Lab** (HTML · CSS · JavaScript · GitHub Pages) [GitHub](#)

**ESP32 Cybersecurity Captive Portal** (ESP32 · C++ · Networking) [GitHub](#)

## **ACHIEVEMENTS**

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- 1st Place – Getwork Hackathon 2025: Built Smart OPD System, a hospital queue and scheduling platform with RBAC workflows, within a 24-hour sprint.
- Published Co-Author – "From CV to Digital Footprint: Employability in the AI Era," book chapter in Redefining Careers and Organizations (LEAD College & Zodha Research Solutions, 2025). DOI: 10.5281/zenodo.17984401
- National Seminar Paper Presentation – University of Calicut, 2026.
- Rajyapuraskar Scout – Bharat Scouts & Guides (National-Level Award); Platoon Commander, demonstrating structured leadership and organisational responsibility.

## **EDUCATION**

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**Master of Computer Applications (MCA)** · LEAD College (Autonomous), Palakkad 2025 – 2027 (Expected)  
Specialization: Advanced Cloud Technologies & Big Data

**Bachelor of Computer Applications (BCA)** · Srinivas University, Mangalore 2022 – 2025 | CGPA: 7.09  
Specialization: Cloud Computing, Ethical Hacking & Cyber Security

## **CERTIFICATIONS**

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- Web Development using React JS – Srishti Innovative (2026)
- Android App Development using Flutter – Srishti Innovative (2026)
- Website Design & Development – Infosys Springboard (2024)
- Build Computer Vision App with Azure – Microsoft (2025)
- Foundations: Data, Data, Everywhere – Google (2025)
- Ethical Hacking Starter Program – Offenso Hackers Academy (2026)
- AI Aware Badge – AI For All (CBSE & Intel, 2025)

## **LANGUAGES**

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**Malayalam** (Native)    **English** (Professional)    **Hindi** (Intermediate)