K Karthik Narayan Pai

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Summary

Innovative developer with experience creating responsive web applications and scalable digital solutions. Known for delivering intuitive user experiences, building secure systems, and solving complex technical challenges. Experience in collaborating with cross-functional teams to drive project success. We are committed to developing high-quality and impactful solutions that meet real-world needs.

Skills

Programming & Scripting: JavaScript(ES6+), Java, C, SQL
Frontend: React.js, HTML5, CSS3, Responsive Web Design
Backend & Databases: Node.js, Express.js, MongoDB
DevOps & Tools: GitHub, VS Code, MS Office, IntelliJ IDEA, Postman, Canva, Netlify

Work Experience

Accelerlab Solutions Pvt Ltd   Feb 2025 – May 2025
Full Stack Web Development Intern – Vehicle Rental System

- Contributed to the development of a Vehicle Rental platform, focusing mainly on frontend features using ReactJS.
- Built and maintained reusable components, improving code consistency and UI responsiveness.
- Collaborated with backend developers during API integration and debugging, ensuring smooth booking and data transactions.
- Practiced Git/GitHub version control through commits, branches, and pull requests for collaborative work.
- Assisted in testing and error handling, helping to improve platform stability and user experience.

Coding KEYLLP   Oct 2023 – Nov 2023
Cybersecurity Intern – CTF

- Co-developed a Capture the Flag (CTF) platform to make cybersecurity concepts interactive and engaging.
- Designed challenges in cryptography, steganography, and web exploitation, helping participants practice real-world security scenarios.
- Built a PHP-based backend to manage authentication, challenge progress, and leaderboard tracking.
- Created a responsive interface with HTML, CSS, and JavaScript to ensure smooth user experience across devices.
- Contributed challenges later used in institutional hackathons, improving peer learning and engagement.

Education

Bachelor of Engineering – Information Science & Engineering   **2021 – 2025**
Mangalore Institute of Technology & Engineering   *CGPA: 8.96*

Senior Secondary (12th)   **2019 – 2021**
SDM PU College, Ujire, Karnataka   *Percentage: 88.50%*

Secondary School (SSLC) – KSEEB   **2018 – 2019**
Holy Redeemer English Medium School, Belthangady   *Percentage: 90.88%*

Project Work

AI-Driven Interviewer System *(Academic Project – 2025)*

- Designed and implemented the dynamic difficulty algorithm to adjust the complexity of the interview question in real time, based on the responses of the candidates and the performance trends.
- Developed the front-end interface using HTML, CSS, and JavaScript, focusing on clean UI/UX for candidate interaction and accessibility.
- Created interactive components (question display, response capture, difficulty indicator) ensuring smooth communication between the user and back-end services.
- Collaborated with back-end developers to integrate the algorithm into the Flask-powered system, ensuring data synchronization and accurate feedback generation.

- Conducted pilot testing of the front-end + adaptive algorithm, gathering feedback and improving usability, which resulted in 85% accuracy in difficulty adaptation and better candidate evaluation outcomes.

Key Skills & Tools: Dynamic Difficulty Algorithm, Front-end (HTML, CSS, JavaScript), UI/UX Design, Flask (integration), Pilot Testing

Vehicle Rental System *(Internship Project – Accelerlab Solutions, 2025)*

- Developed the user interface for a full-stack vehicle rental platform, enabling customers to browse, book, and pay for vehicles, while owners could list and manage bookings.
- Reactive UI components built using React.js, CSS3, and JavaScript, ensuring smooth performance across desktop and mobile devices.
- Integrated front-end with back-end APIs Node.js, Express.js, MongoDB) to enable real-time booking updates and secure data flow.
- Implemented integration of payment workflow with Razorpay and JWT-based authentication, focusing on usability and security.

Key Skills & Tools: React.js, JavaScript, CSS3, Node.js (integration), Express.js, MongoDB, Razorpay, JWT, Git/GitHub, Netlify

Awards and Certificates

- **Postman API Fundamentals Student Expert** – Postman, 2024
- **Innovation with Data and Google Cloud** – Certified by SimpliLearn, 2024
- **Postman Classroom Program** – Centre for Open-source Software and Hardware, NITK Surathkal with Postman, 2024
- **Salesforce Developer Catalyst Program** – Certified by FutureSkills PRIME, 2024