# Karthikeyan R
## Full Stack Developer

✉ Karthikeyanzx21@gmail.com   📞 7010602615   📍 Coimbatore   in Karthikeyan-r

## Professional Summary

Full Stack Developer with over 2.5 years of experience in designing, developing, and deploying scalable web and mobile applications. Proficient in React.js, Next.js, Node.js, React Native, and MongoDB, with expertise in API integrations, secure authentication systems (JWT, OAuth 2.0), and performance optimization (SSR, SSG). Adept at leveraging modern frameworks, cloud technologies (AWS), and AI tools to deliver high-quality, user-focused solutions. Skilled in Agile methodologies and collaborative development using Git, GitHub, and Jira

## Core Competencies(Skills)

- **Languages & Technologies:** JavaScript (ES6+), TypeScript, HTML5, CSS3, SCSS.
- **Frameworks & Libraries**: React.js, Next.js, Redux, Node.js, Express.js, React Native, Tailwind CSS, Ant Design, MUI, Generative AI.
- **Databases & ORM:** MongoDB (Mongoose), Microsoft SQL Server.
- **Authentication & Security**:JWT, OAuth 2.0, RBAC, CSRF Protection.
- **APIs & Testing:**RESTful APIs, GraphQL, Postman, SoapUI, Swagger.
- **Tools:** Git, GitHub, MongoDB Compass, VS Code.
- **Cloud :** AWS (EC2, S3, Lambda).
- **Project Management :** Jira, Agile, Scrum

## WORK EXPERIENCE

**CGVAK Software and Exports,Coimbore**                    January 2023 - Present

*Software Engineer*

- Engineered full-stack web applications using React.js, Next.js, Node.js, and Express.js, improving system scalability and user engagement by 30%.
- Designed responsive, SEO-optimized user interfaces with HTML5, CSS3, Tailwind CSS, and TypeScript, leveraging SSR and SSG in Next.js for enhanced performance.
- Developed and integrated RESTful APIs with Node.js and Express.js, ensuring efficient data processing and secure communication.
- Maximized productivity by leveraging AI tools (e.g., ChatGPT) to work up to 2x faster, streamlining development workflows, accelerating problem-solving, and enhancing documentation efficiency.
- Managed version control and team collaboration using Git and GitHub, reducing deployment errors by 20%.

# PROJECTS

## SloganSpark – AI-Powered Marketing Caption Generator
**Role:** Full-Stack Developer (Personal Project)
**Technologies:** React.js, Node.js, Express.js, MongoDB, OpenAI API

- Developed an AI-driven web application to generate catchy slogans, taglines, and marketing captions based on user inputs (product name, description, tone, and type).
- Implemented a user account system with sign-up/login, history tracking, and the ability to save favorite outputs, using MongoDB and JWT for secure authentication.
- Built a responsive frontend with React.js, featuring copy-to-clipboard functionality, a "Regenerate" option, and optional AI enhancements like caption rewriting and hashtag suggestions.
- Integrated OpenAI API for creative content generation, improving output quality and user satisfaction by 40%.

## PWA Enhancement Project – Ticket Management System
**Role:** Frontend Developer
**Technologies:** React.js, GraphQL,MUI

- Developed a **Ticket Management System** Streamlined company operations by enabling efficient ticket creation, tracking, and resolution**.**
- Developed and optimized departmental management modules using **React.js** & **MUI**, ensuring a seamless and responsive user experience.
- **Implemented Interactive Maps** Integrated map features for better visualization and management of tickets across locations.
- Improved Performance & Scalability Optimized frontend components for faster load times and smoother interactions.

## PLAFERA – Quiz, Donation, and Waste Collection
**Role:** Frontend Developer
**Technologies:** React.js,Redux,MUI

- Developed a waste management web application with interactive quizzes and challenges, increasing user engagement by 35%.
- Optimized app performance by implementing efficient state management with Redux and responsive design using Bootstrap.
- Integrated RESTful APIs for dynamic content delivery and seamless frontend-backend communication.
- Implemented secure user authentication and role-based access control using JWT.
- Utilized Chart.js to visualize data such as quiz scores and environmental impact, boosting user motivation.
- Collaborated with cross-functional teams to ensure scalability, performance, and a consistent user experience across all devices.

**FESTIVAL PRO – Shows, Events, Artist Info Guide**

**Role:** React Native Developer

**Technologies:** React Native,SQLite

- Built a mobile app for managing and exploring festival events, enabling users to browse and track favorite shows seamlessly.
- Integrated SQLite for offline functionality, ensuring uninterrupted access to event details and improving user experience in low-connectivity areas by 50%.
- Designed an intuitive UI with React Native, optimizing performance for both iOS and Android platforms.

---

**PHSS – Employee Management System**

**Role:** Front-End Developer

**Technologies:** React Native

- Designed a mobile-first employee management app with real-time tracking of schedules, leave requests, and resources using React Native.
- Integrated Twilio for automated notifications, improving communication efficiency by 40%.
- Automated leave and time-off workflows, reducing manual processing time by 50% while ensuring scalability and security compliance.

## CERTIFICATIONS

- Completed Full Stack Development Certification on an online learning platform, gaining hands-on experience with MERN stack.
- Secured 2rd place in the Code Ninjas college competition for building a web solution under time constraints.

## EDUCATION

- **Bachelor of Science in Computer Technology**
  PSG College of Arts and Science, Coimbatore (2023)
  First Class with Distinction
- **Higher Secondary School (HSC)**
  SKL Public Higher Secondary School,Tiruppur(2020)
  Percentage: 80.0%
- **Secondary School (SSLC)**
  Amrita Vidyalayam,Tiruppur (2018)
  Percentage: 93%