KARTHIK KRISHNAN IYER
Software Developer
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PROFILE

A results-driven Software Developer with hands-on experience in front-end and MERN stack development. Proficient in building dynamic, responsive web applications using React.js, Node.js, Express.js, and MongoDB. Skilled in designing intuitive user interfaces, managing databases, and optimising application performance for efficiency and scalability. Adept at implementing secure authentication and state management solutions. Strong problem-solving abilities with a track record of delivering high-quality, error-free software. Committed to continuous learning and applying best practices to meet evolving technology needs.

SKILLS SUMMARY

Languages: HTML5, CSS3, JavaScript, TypeScript, Python, and R
Frameworks: React.js, Angular, Node.js, Express.js, Redux, Material UI, Next.js, MongoDB, and TailwindCSS
Data Analysis: SQL, MS Office, Excel, Tableau, Power BI, Machine learning, Data Mining, Statistics, and Pytorch
Others: REST APIs, Web Sockets, Data Structures, Algorithms, Project Management, Cloud (AWS, Azure), and Docker

WORK EXPERIENCE

Software Developer Intern   Feb'24 - July'24
Ocrawise, Dublin, Ireland

- Developed and maintained web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js), ensuring efficient full-stack development and integration.
- Designed and managed databases with MongoDB, including data modelling, schema design, and implementing CRUD operations to support application functionality.
- Built responsive and dynamic user interfaces using React.js, incorporating state management with Redux for enhanced performance and user experience.
- Curated server-side logic and integrated APIs using Node.js and Express.js, implementing authentication and authorisation with JWT for secure application access.
- Optimised application performance by identifying bottlenecks and applying best practices for front-end and back-end development, improving loading times and overall efficiency.
- Conducted thorough testing and debugging, including unit, integration, and end-to-end tests using tools like Jest, to ensure high-quality and error-free software delivery

Software Engineer   April' 21 – Aug' 22
eFleet Systems Private Limited Remote, India

- Created and implemented responsive designs to ensure optimal user experience across various devices and screen sizes, ensuring full functionality and visual appeal on mobile devices.
- Designed and executed key features and functionalities to enhance user engagement and interaction, including the development of intuitive and user-friendly interfaces.
- Utilised Redux for efficient state management in complex applications, handling application data flow and state to ensure consistent and reliable performance.
- Spearheaded developing and deploying full-stack web applications utilising React.js, fostering seamless collaboration with cross-functional teams to deliver customised technical solutions.
- Architected and implemented robust CRUD APIs using MongoDB, Node.js, and Express.js, ensuring scalable and efficient data management solutions.
- Enhanced website performance, achieving an average load time of under 5 seconds, thereby significantly boosting user satisfaction and engagement.

- Integrated Firebase for back-end services, including authentication, database management, and hosting, enabling real-time data updates and synchronisation.

EDUCATION

Master of Science in Data Analytics   Sept 2022 – Nov 2023
National College of Ireland, Dublin; **Grade:** 2:1
Key Modules: Data Mining & Machine learning, Databases & Analytics Programming, Statistics, Modelling, Simulation & Optimisation, Business Intelligence & Business Analytics, Domain Applications of Predictive Analysis, and Research Project

Bachelor of Engineering in Electronics   Aug 2018 – Jul 2021
Ramrao Adik Institute of Technology, Nerul, Navi Mumbai; **Grade:** 1:1
Key Modules: Database Management System, Object Oriented Programming, Computer Organization & Architecture, Advance Networking Technologies, Digital Signal Processing, DSP using MATLAB, and Project Management

PROJECTS

GetMeAChai Full stack Web Application
Overview: Developed a full-stack web application to support creators through secure donations.
Responsibilities:
- Designed and implemented a responsive and efficient full-stack application using Next.js.
- Integrated NextAuth.js for secure user authentication and authorisation.
- Developed a visually appealing and responsive UI with Tailwind CSS and Integrated Razorpay for secure and seamless donation transactions.
- Implemented real-time notifications using React-Toastify and managed user and payment data using MongoDB.

Technologies Used: Next.js, NextAuth.js, Tailwind CSS, React-Toastify, MongoDB, Razorpay.
Achievements:
- Successfully launched the application with positive user feedback.
- Enhanced user trust through secure authentication and payment processing.
- Ensured optimal performance and cross-device compatibility.
(Link to project: getmeachai   *Github*)

Cricket Website Using ReactJS
Overview: Created a dynamic website to display cricket team profiles, player details, venues, match results, and upcoming matches.

Responsibilities:
- Designed and developed a comprehensive and dynamic website using ReactJS.
- Utilised ReactJS's map function to dynamically render lists of teams, players, venues, match results, as well as upcoming matches.
- Ensured responsive design for optimal viewing experience across devices including desktops, tablets, as well as mobile phones.
- Managed and displayed real-time cricket data to provide users with up-to-date information.
- Developed an intuitive user interface to enhance engagement and navigation.
- Implemented performance optimisation techniques to ensure fast loading times and smooth user experience.
- Technologies Used: ReactJS, Map function for dynamic list rendering.

Achievements:
- Successfully launched a dynamic and engaging cricket information website.
- Enhanced user engagement and satisfaction through an intuitive and responsive design.
- Provided accurate and real-time cricket information, meeting user expectations and needs. ReactJS (Link to project: CrickBuzz ǁ *Github*)