Karthikeyan Gandhi Ravindran

Lead Frontend Engineer

Phone: +1 945-272-7953   Location: Irving, Texas, USA

Email: karthikeyangr06@gmail.com   LinkedIn: https://www.linkedin.com/in/karthikeyangr

Visa Status: H1-B

PROFESSIONAL SUMMARY

- Results-driven UI Architect and Frontend Developer with extensive experience in designing, developing, and delivering scalable and high-performing enterprise-grade applications. Expertise in modern web technologies, micro frontend architectures, and responsive UI development, ensuring seamless user experiences across multiple platforms.
- 14+ years of expertise in front-end engineering framework, libraries tools - HTML, CSS, JavaScript, React.js, Angular, AngularJS, Turbo, Vite, Webpack, Node.js, PostgreSQL, MongoDB, GraphQL and Restful APIs.
- Experienced in modernized legacy applications, migrating from AngularJS to React.js, enhancing maintainability and scalability.
- Experienced in developing AI-driven applications, integrating LLMs for enhanced user experiences, and implementing AI-powered copilots for enterprise solutions.
- Integrated and customized UI components with Bootstrap, Material UI, and client-specific libraries to deliver visually appealing and functional user interfaces.
- Utilized Webpack and Vite bundlers for efficient application bundling and developed robust micro frontend architectures for scalable project development.
- Proficient in implementing charting solutions using various libraries to enhance data visualization.
- Over 5 years of experience in backend development with Ruby on Rails, building scalable and secure applications.
- A proactive leader with a passion for innovation and excellence in UI development, continuously striving to enhance user engagement, application performance, and team productivity.

SKILLS

Frontend: React.js, TypeScript, Redux, Angular, AngularJS, JavaScript, HTML

AI: Agentic AI development, GitHub Copilot

Styling: CSS3, SCSS, Bootstrap, Tailwind CSS.

UI Libraries: Custom UI Library, Material UI.

Bundlers: Vite, Webpack, Mono Repo with Turbo, Micro frontend with Module federation

Testing: Vitest, React Testing Library, Automation with Testcafé and Cucumber

Backend: Node.js, Ruby on Rails

Database: GraphQL, Mongo DB, PostgreSQL

Tools: Git, Gitlab, SVN, VS Code, Postman, Web Accessibility Tools (AXE dev tools), SonarQube, ESLint

Other Skills: RESTful APIs, CI/CD Pipelines (Jenkins, Gitlab), Cross browser compatibility, Agile Development,

EXPERIENCE

Manager - Projects   **Feb 11, 2024 – Till Date**

Cognizant Technology Solutions   *Texas, USA*

- Served as the primary onsite React lead, coordinating between business stakeholders, product owners, and offshore development teams.
- Translated business requirements into solutions and ensured alignment with UI/UX and architectural standards.
- Coordinated releases, hotfixes, and production support across time zones.
- Presented sprint demos, architectural decisions, and delivery status to stakeholders and leadership.

- Worked with Agentic AI solutions to convert the Figma design to react UI code along with UI/UX standards.
- Integrated GitHub Copilot into daily development workflows with IDE to improve developer productivity
- Performed code reviews and established good practices to ensure my team delivered high quality products on time

Manager - Projects   Oct 27, 2021 – Feb 10, 2024
Cognizant Technology Solutions   *Chennai, India*

- Led the development of scalable, high performing micro frontend applications for enterprise grade solutions.
- Developed applications with Webpack Module Federation and mono repo applications with Vite and Turbo.
- Wrote unit tests using Jest and React Test Library with high code coverage.
- Worked on E2E automation testing using Testcafé and Cucumber.
- Spearheaded release activities, ensuring smooth deployment with zero downtime.
- Reduced technical debt by addressing sonar code smells, code refactoring
- Extensive experience in creating responsive & adaptive design web sites using CSS3, SCSS, media queries.
- Performed code reviews and established good practices to ensure my team delivered high quality products on time

Technical Lead   Nov 7, 2019 – Oct 20, 2021
Wipro Technologies   *Chennai, India*

- Responsible for UI Architecture, development, and delivery of Online dashboard application for Lloyds Bank.
- Successfully converted legacy AngularJS applications to modern React.js solutions, improving performance, maintainability, and scalability.
- Successfully customized open-source applications to align with business needs and converted a single-tenant architecture into a multi-tenant architecture.
- Implemented charting solutions using libraries like Chart.js, Highcharts.js, and D3.js, enhancing data visualization capabilities.
- Contributed to the technical evaluation process at both team and organizational levels, ensuring best practices and high-quality standards.

Technology Lead   May 2, 2017 – Oct 25, 2019
Infosys limited   *Chennai, India*

- Led UI development and delivery of an in-house online application for AT&T, managing and guiding the team.
- Developed single-page applications (SPAs) using Angular, incorporating forms, charts, and integrating with Node.js and MongoDB.
- Designed and implemented responsive web applications using CSS3, media queries, and Bootstrap, ensuring compatibility across multiple devices.
- Built URL shortener and survey solutions as SPAs using Angular, enhancing user engagement and accessibility.
- Developed a dynamic web application that rendered real-time data on a canvas and played videos with dynamically stitched audio.
- Designed and structured MongoDB schemas for the Survey Solution, optimizing data storage and retrieval.
- Participated in technical evaluation processes at both team and organizational levels, ensuring adherence to best practices and high coding standards.

Lead Software Engineer   Jan 17, 2012 – Apr 28, 2017
EC Group Datasoft Pvt Ltd   *Chennai, India*

- Responsible for UI development, and delivery of Online application for Open Medicine Clinic, USA with HTML5, CSS3, Bootstrap, JavaScript, Angular.js, Ruby on Rails and PostgreSQL.

- Migrated legacy JavaScript and AJAX applications to modern AngularJS, enhancing performance, maintainability, and scalability.
- Upgraded the application from Rails 1.2.1 to Rails 5, ensuring improved security, performance, and modern framework compatibility.
- Extensive experience in creating responsive design web sites using CSS3, bootstrap to support multiple devices.
- Worked with data integration along with the DB conversion and migration system by the parser-using ruby.
- Implemented writing text and drawing in image using JavaScript Canvas & Literally canvas.
- Implemented different version of calendar schedules display using full calendar-rails.
- Worked with Pdf kit, Pdf Writer & wkhtmltopdf gems to generate PDF reports.
- Worked with Parse Excel and Spreadsheet gems to parse and create the XLS reports.

EDUCATION

Bachelors in Computer Science and Engineering   **2006 - 2010**
Anna University, India