

RAVI KUMAR NERSU

Senior Software Engineer | Frontend-Focused Full Stack

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PROFESSIONAL SUMMARY

Senior Software Engineer with 8.6 years of experience delivering production web applications with deep frontend expertise in React.js, Next.js, TypeScript and JavaScript, plus four years of hands-on full-stack and AWS work using Node.js, NestJS and Express.js. Built accessible, responsive multi-market products, Backend-for-Frontend services, REST/GraphQL APIs and cloud/serverless workloads. Improved Lighthouse score from approximately 45 to 80, page-load time from approximately 6 seconds to 3 seconds, LCP from approximately 4.5 seconds to 2.2 seconds and initial JavaScript payload from approximately 1.2 MB to 800 KB. Mentored two junior engineers and supported architecture, code reviews, production debugging, observability and incident resolution with global Agile teams.

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript, HTML5, CSS3, Redux, Redux Toolkit, Redux Thunk, Material UI, microfrontends, monorepo, design systems, accessibility, responsive design, web performance

Backend and APIs: Node.js, NestJS, Express.js, Backend-for-Frontend (BFF), MERN, RESTful APIs, GraphQL, microservices, serverless architecture, OAuth 2.0, OpenID Connect, JWT, RBAC, ORM-based data access, database modelling

Databases: PostgreSQL, MongoDB, DynamoDB, MySQL, relational and NoSQL databases

AWS and DevOps: AWS EC2, Lambda, API Gateway, IAM, S3, Elastic Beanstalk, RDS, CloudFront, CloudWatch, cross-account deployments, Docker, Kubernetes, GitHub Actions, CI/CD, Git, Bitbucket

Testing and Delivery: Jest, React Testing Library, Playwright, Cypress, unit/integration/E2E testing, Figma, Webpack, Vite, Babel, Jira, Agile/Scrum, code reviews, monitoring, observability, incident resolution

PROFESSIONAL EXPERIENCE

Senior Frontend Engineer (Specialist Software Engineer) - Client: Avis Budget Group | LTIMindtree

Hyderabad, Telangana, India | Jan 2024 - Apr 2026

- Owned frontend architecture and full-stack delivery for booking, search, forms, dashboards and CMS-driven digital rental experiences across 15+ country markets using React.js, Next.js, TypeScript and JavaScript in a microfrontend architecture and monorepo.
- Improved Lighthouse score from approximately 45 to 80, page-load time from approximately 6 seconds to 3 seconds, LCP from approximately 4.5 seconds to 2.2 seconds and initial JavaScript payload from approximately 1.2 MB to 800 KB through rendering changes, route-level code splitting, image optimization and bundle analysis.
- Built reusable, accessible React components, shared libraries and design-system patterns from Figma designs; maintained modern Webpack, Vite and Babel build pipelines.
- Developed Node.js, NestJS and Express.js BFF/MERN services and RESTful/GraphQL APIs with OAuth 2.0, OpenID Connect, JWT and RBAC; used PostgreSQL, MongoDB, DynamoDB, ORM-based data access and relational/NoSQL database modelling.
- Deployed and supported AWS workloads using EC2, Lambda, API Gateway, IAM, S3, Elastic Beanstalk, RDS, CloudFront and CloudWatch, including serverless and cross-account deployments with Docker and Kubernetes.
- Implemented unit, integration and E2E coverage with Jest, React Testing Library, Playwright and Cypress; supported GitHub Actions CI/CD, production debugging, observability, monitoring and incident resolution. Mentored two junior engineers, reviewed code and coordinated Agile/Scrum delivery in Jira using Git and Bitbucket.

Senior Software Engineer | MSRCosmos LLC

Hyderabad, Telangana, India | Aug 2020 - Jan 2024

- Delivered a business-critical Railways application for TM International Logistics Limited (TMILL), including a responsive 10-step Material UI workflow to create, edit, review and approve logistics jobs within a monolithic application architecture.
- Built accessible React.js and TypeScript interfaces, reusable components, Redux/Redux Thunk state flows and Figma-driven UI using Webpack, Vite and Babel; developed Node.js and Express.js/MERN services and RESTful APIs.
- Implemented OAuth 2.0/OpenID Connect, JWT/RBAC, ORM-based data access and database modelling across PostgreSQL, MongoDB, MySQL and DynamoDB.
- Worked with AWS EC2, Lambda, API Gateway, IAM, S3, Elastic Beanstalk, RDS, CloudFront and CloudWatch across cloud/serverless and cross-account deployments, together with Docker, Kubernetes and CI/CD.
- Used Jest, Playwright and Cypress for automated testing; supported production debugging, observability, system monitoring, incident resolution and code reviews while delivering through Agile/Scrum in Jira with Git and Bitbucket.

Frontend Web Developer | Allmvr

Vijayawada Area, India | Aug 2019 - Aug 2020

- Built customer-facing and administrative React.js applications for a local-commerce platform connecting customers with nearby stores and restaurants.
- Developed responsive React and TypeScript components using JavaScript, React Router, Redux, Redux Toolkit, Redux Thunk, Material UI, HTML5, CSS3 and REST API integrations; implemented multi-level registration/authentication workflows.
- Delivered store administration, product-catalog CRUD and order-history capabilities through Agile/Scrum in Jira using Git and Bitbucket with SQL/MySQL-backed data.

Software Engineer | WhatsScore Pvt Ltd

India | Jun 2017 - Jul 2019

- Built enterprise sports web and mobile features with React.js, JavaScript, React Router, Redux, Redux Toolkit, Redux Thunk, HTML5, CSS3 and SASS.
- Developed reusable components and centralized state flows for tournament configuration, participant registration, scorer assignment, matches, rounds, draws, player dashboards and tournament-information management.
- Delivered maintainable frontend functionality through Agile/Scrum in Jira using Git and Bitbucket with SQL-backed application data.

EDUCATION

Bachelor's Degree in Computer Science | KL University | 2013 - 2017