Sagar Bharadwaj K R

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Professional Summary

Versatile Senior Frontend Engineer with 3+ years of experience building performant, user-focused web applications. Recognized for delivering end-to-end features—from discovery and research to implementation and deployment—while operating as the sole owner of the frontend ecosystem. Combines strong product thinking, user empathy, and technical expertise to ship interfaces that balance usability, performance, and measurable business impact.

Skills

- **UX Designing:** Wireframing, Prototyping, Design Thinking, User Interviews, Usability Testing, Figma.
- **Frontend Dev:** HTML, CSS, Typescript, React, Angular, Vite, Next JS, Redux, Tailwind, Cypress, RTL.
- **Backend & DevOps:** Python, .Net, FastAPI, MySQL, Mongo DB, Docker, Jenkins, GitHub Actions.

Experience

UX Engineer   **July 2023 – Present**
Armac Martin (Birmingham, UK)
- Replaced a costly external legacy platform with a modern PWA using React, Python, and FastAPI, partnering with 8 departments to deliver features and complete full migration in 8 months.
- Built mobile-first rejection forms with automated push notifications to line managers, digitizing the paper workflow with 400+ error-free submissions, improving transparency, and cutting paper costs.
- Developed multilingual support with IndexedDB and backend caching, eliminating repeat Google Translate API calls and enabling zero-cost translations entirely within the free-tier limit.
- Implemented map- and chart-based production routing using React and Recharts, enabling new joiners to navigate production flows independently and significantly reducing routing errors.
- Migrated the repository to GitHub Enterprise and configured GitHub Actions CI pipelines with automated tests and code quality checks, reducing production issues.
- Assisted in setting up Dockerized build pipelines and Jenkins CI workflows, reducing build failures by 25% and improving deployment consistency across development and staging environments.
- Implemented Husky pre-commit hooks and authored extensive unit tests using Vitest and RTL, along with e2e tests using Cypress, improving code reliability and reducing defects.
- Delivered 10+ features end-to-end by gathering customer requirements, analyzing workflows, scoping features, writing stories/spikes, and driving delivery through design-thinking practices.
- Introduced 5+ long-term upgrades by researching new technologies during IP weeks, including SonarQube in Jenkins, Husky pre-commit hooks, push notifications, and translation caching.

Application Development Associate   **Nov 2020 – Aug 2022**
Accenture Solutions Pvt Ltd (Bengaluru, India)
- Designed and developed user interfaces for B2B SaaS products, collaborating with designers and

stakeholders to translate concepts into functional prototypes and ship new features in an agile environment.

- Reduced equipment failures by 30% by building a D3.js-powered asset dashboard visualizing equipment and sensor health.
- Decreased system latency by 20% by modularizing and restructuring 5 critical modules following database schema updates.
- Integrated 30+ API endpoints through close collaboration with backend teams, ensuring smooth feature delivery and cross-functional alignment.
- Built and documented 50+ reusable front-end components using Angular Material and PrimeNG, establishing a maintainable design system and reducing development time by 25%.
- Achieved a 98% critical bug-free rate across 40 user stories through thorough browser testing and attention to detail.
- Maintained high code quality by writing comprehensive unit tests with Jasmine and Karma, achieving 95%+ coverage and reducing post-deployment bugs by 15%.

Education

MSc UX Designing   **Sep 2022 – Sep 2023**
University of Brighton, Brighton, UK

Bachelor of Engineering (Electronics & Communication): 8.33 (CGPA)   **June 2016 – Aug 2020**
P.E.S College of Engineering, Mandya

Personal Projects

Design Pilot
- Built an AI-powered design review tool that evaluates Figma designs against standard UX heuristics, generating scores and actionable improvement insights.
- Developed a FastAPI backend in Python to process user inputs and orchestrate GPT-4.0 calls for automated design critique.
- Created a responsive frontend using React, TypeScript, and Next.js, enabling users to upload Figma files and view results in an interactive analytics dashboard.
- Delivered a seamless end-to-end workflow that transforms raw Figma designs into structured UX assessments, improving designers' iteration speed and feedback quality.
- *Frontend Repo* | *Backend Repo* | *Blog*.

Life Supplies - Landing Page redesign
- Redesigned the landing page for a sustainable bathroom products brand, creating a polished and consistent design system aimed at improving user experience and increasing conversion rates.
- Rebuilt the site using JavaScript, SCSS, and Bootstrap, ensuring responsive layouts, optimized load performance, and clean visual hierarchy.
- Deployed the redesigned site on Netlify, enabling fast global delivery and streamlined CI for rapid iteration.
- *Live Site* | *Repository*