

KENIL VAGHASIYA

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Experience

Software Engineer

June 2024 – Present

UnivSoftware.com, Inc

Las Vegas, NV

- Developed and maintained large-scale, customer-facing React.js applications for e-commerce platforms, delivering fast, responsive, and reliable user experiences in high-load environments.
- Integrated TypeScript across the codebase to enforce static typing and reduce runtime errors, contributing to a 30% decrease in post-release front-end bugs.
- Architected reusable UI component libraries using React Hooks, Context API, and Styled Components to promote reuse and maintain visual consistency.
- Implemented SSR, lazy loading, and Webpack code splitting, improving First Contentful Paint (FCP) by 40% and reducing bundle size significantly.
- Built Progressive Web Apps (PWA) with Service Workers and offline capabilities, improving mobile performance and engagement.
- Integrated AWS services including S3, CloudFront, Lambda, and API Gateway for dynamic data delivery and cloud scalability.
- Championed accessibility (WCAG 2.1, ARIA) with detailed audits and Figma prototyping, boosting usability for diverse user bases.
- Wrote comprehensive unit/integration tests using Jest, Cypress, and React Testing Library, increasing test coverage to 90%+.
- Actively participated in peer reviews and Agile ceremonies using Jira, Confluence, and GitHub, maintaining continuous delivery cycles.

Full-Stack Developer

Sep. 2023 – May 2024

Associated Students, Inc

Long Beach, CA

- Spearheaded development of **22WestMedia**, a **media platform** built with **React.js** and **Node.js**, featuring dark/light modes and live streaming for **KBeach Radio**, boosting campus radio engagement.
- Developed and launched the **Week of Welcome app**, resulting in a **4x traffic increase** and a **300% spike** in daily user visits. Leveraged **Google Analytics** for performance and content improvements.
- Modernized and expanded **3 CSULB websites** (ASI, SRWC, 22WestMedia), driving a **55% increase** in total web views and a **16% rise** in Instagram engagement.
- Ensured **website security** and implemented **SEO optimization**, enhancing site performance and discoverability.

Full-Stack Developer

Jan 2020 – July 2022

Rejoice Hub Solutions

Surat, India

- Developed Angular 8+ modules for BT's telecom portal (billing, subscriptions, and service support), enabling real-time service management for millions of customers.
- Integrated RESTful APIs to dynamically render customer billing data, service requests, and plan upgrades, ensuring low-latency UI interactions.
- Enhanced application performance through modular routing, lazy loading, and OnPush change detection, reducing initial load times and memory footprint.
- Enforced accessibility standards (WCAG 2.1) and designed responsive layouts using SCSS and Bootstrap, ensuring a consistent UI across major browsers (Chrome, Firefox, Safari, Edge).
- Utilized RxJS to manage asynchronous data streams and reactive state, improving stability during high API load.
- Authored unit tests using Jasmine and Karma, covering all critical UI flows and reducing regression incidents during Agile sprints.
- Conducted Lighthouse audits and DOM performance analysis via Chrome DevTools, resolving layout shifts and improving Core Web Vitals scores by up to 35%.
- Maintained Git workflows using Bitbucket, and contributed to structured peer code reviews that improved adherence to BT's internal style guides.
- Collaborated cross-functionally with backend engineers, QA testers, and product owners via Jira and Confluence, ensuring Agile delivery of new feature modules.

Technical Skills

Programming Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3, SCSS, SASS, LESS, Node.js

Frontend Technologies: React.js (Hooks, Context API), Angular (8+), Vue.js, Next.js (API routes, Middleware, ISR), Redux, Zustand, Axios, Tailwind CSS, Bootstrap, Material UI, Ant Design, Styled Components, Responsive Design, Cross-Browser Compatibility, Accessibility (WCAG, ARIA), Figma, Adobe XD

Backend Integration: RESTful APIs, GraphQL, Spring Boot (for API collaboration), Firebase, WebSockets

Cloud & Containerization: AWS (Amplify, EKS, ECS), Docker, Kubernetes
CI/CD Tools: Jenkins, GitLab CI, Maven, Git (Bitbucket, GitHub)
Databases: MongoDB, PostgreSQL, MySQL
Event-Driven Architecture: Apache Kafka
Security: JWT, OAuth2, Spring Security, HIPAA Compliance
DevOps & Monitoring: Splunk, Kibana, Grafana
Performance Optimization: Code Splitting, Lazy Loading, SSR, Image Optimization, WebAssembly (WASM), Caching Strategies, Lighthouse Audits, Core Web Vitals
Testing & Quality Assurance: Jest, React Testing Library, Jasmine, Karma, Automated Testing
Methodologies & Practices: Agile Scrum, Peer Code Reviews, Continuous Integration, Cross-browser Testing, Accessibility Compliance
Other Expertise: Microservices architecture, Cloud-native development, Event-driven architecture

Projects

Intelligent File Search Engine with Real-Time Data Retrieval | *Python, SparQL, React.js*

- Engineered a high-performance search solution indexing over 30,000 files into SQL via a custom Python algorithm, and developed a responsive React.js front-end integrated with Flask, delivering real-time queries and returning the top 10 most relevant files based on word-based indexing.

Hotel Ratings Analysis and Visualization | *React.js, Pandas, NumPy, Scikit-learn, Plotly API*

- Performed extensive data cleaning and transformation on large hotel review datasets using Pandas and NumPy, and employed Plotly API for interactive data visualization while leveraging Scikit-learn’s machine learning models for actionable insights and predictions.

Education

California State University Long Beach <i>Masters in Computer Science</i>	July 2022 – July 2024 <i>Long Beach, CA</i>
Indus University <i>Bachelor’s in Information Technology</i>	June 2018 – June 2022 <i>Ahmedabad, India</i>