

# Komala

Sr. UI Developer | Front-End Developer

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## PROFESSIONAL SUMMARY

- Around **9** years of experience designing and developing highly interactive, scalable, and user-friendly web and mobile applications.
- Expertise in modern front-end technologies, including HTML5, CSS3, JavaScript (ES6+), and Typescript to build dynamic and responsive UIs.
- Proficient in React.js, Next.js, React Native for creating high-performance single-page applications (SPAs).
- Skilled in Express.js to develop seamless, real-time, data-driven applications and knowledge in AngularJS
- Strong command over state management using Redux, Context API ensuring maintainable and scalable front-end Arch
- Experienced in styling libraries such as Styled Components, Tailwind CSS, Material-UI, Bootstrap, for creating modern, visually appealing interfaces.
- Hands-on with testing frameworks, including Jest, Enzyme, Jasmine, and Karma, to ensure high-quality bug-free apps
- Backend and API integration skills, leveraging Node.js, Express.js, RESTful APIs, GraphQL, WebSockets, JWT Authentication, and OAuth 2.0.
- Cloud deployment expertise in AWS (S3, CloudFront, Amplify, Lambda, Elastic Beanstalk) and Azure (App Service, Static Web Apps, Blob Storage) for hosting and scaling applications.
- Deep understanding of DevOps practices, working with Git, GitHub, Bitbucket, Jenkins, Azure DevOps, Docker, and Kubernetes for CI/CD and containerized deployments.
- Performance optimization experience, implementing lazy loading, tree shaking, React Profiler, Lighthouse, and code-splitting for better user experience and load times.
- Adept at UI/UX design principles, translating Figma, Adobe XD, Photoshop, and Illustrator designs into responsive and accessible web applications. Knowledgeable in WCAG for creating inclusive web applications.
- Proficient in real-time data processing using Redis, and WebSockets, ensuring seamless application communication.
- Effective communicator and team player, collaborating with cross-functional teams, designers, and stakeholders to deliver intuitive, high-quality user experiences.
- Detail-oriented problem solver, continuously improving UI/UX, refactoring code, and staying updated with industry trends and best practices.

## TECHNICAL SKILL

Category	Details
Programming Languages	HTML5, CSS3, JavaScript (ES6+), JSX, TypeScript, Python
Frameworks & Libraries	React.js / React, Next.js, React Native, React Native CLI, Expo, Redux, Styled Components, NativeBase, Angular, AngularJS, NgRx, Material-UI, Tailwind CSS, Express.js, Node.js, GraphQL, D3.js, jQuery, Bootstrap, React Navigation (including Stack Navigator), Storybook
Testing & Quality Assurance	Cypress, Jest, RTL, Enzyme, Jasmine
Version Control & Collaboration	Git, GitHub, GitLab, Bitbucket, Confluence, JIRA
Package Managers & Build Tools	NPM, Yarn, Webpack, Babel
DevOps, CI/CD & Containerization	Jenkins, Azure DevOps, Docker, Kubernetes, JFrog
Cloud & Hosting Services	AWS, S3, CloudFront, AWS Amplify, Lambda, Elastic Beanstalk, CloudWatch, Secrets Manager, Azure, App Service, Static Web Apps, Blob Storage
Databases & Data Management	MySQL, MongoDB, Redis
APIs, Protocols & Data Formats	RESTful APIs, AJAX, WebSockets, JWT Authentication, OAuth 2.0, Postman, Google Spreadsheets APIs, XML
Design, Prototyping & UX/UI	Photoshop, Figma, Adobe XD, Material Design

Category	Details
Performance, Optimization & Layout Techniques	React Profiler, Lighthouse, Lazy Loading, Tree Shaking, Flexbox
Developer & Browser Tools	VS Code, WebStorm, Chrome Developer Tools, Firefox Developer Tools
Additional Technologies & Concepts	React Hooks, React Router, Context API, Canvas API, SASS (Sass), Route Guards, Interceptors, WCAG (Web Content Accessibility Guidelines), Trello, Lightbox
Monitoring tool & API	Datadog, Real User Monitoring

## EXPERIENCE

**US Bank, Minneapolis, MN**  
**Sr. UI Developer | May 2024 - Present**  
**Roles & Responsibilities:**

- Crafted semantic, accessible layouts with **HTML5** and **CSS3**, implementing **Responsive & Adaptive Design** techniques.
- Enhanced interactivity and functionality using **JavaScript (ES6+)** and **JSX** for dynamic component rendering.
- Developed high-performance web applications using **React.js** and **Next.js (SSR)** to deliver fast, server-side rendered content.
- Utilized **React Hooks** to manage component state and lifecycle, promoting cleaner and more efficient code.
- Configured client-side routing with **React Router** and managed global state using **Redux**.
- CSS in JS using **Styled Components** and integrated **NativeBase** to ensure a consistent UI across platforms.
- Deployed containerized applications using **Docker** and orchestrated them with **Kubernetes** for scalable environments.
- Managed data storage solutions with **MySQL** and **MongoDB**, ensuring efficient data retrieval and integrity.
- Maintained code quality and version control through **Git** and managed dependencies with **NPM**.
- Optimized application performance with **Lazy Loading** and **Tree Shaking** to reduce bundle sizes and improve load times.
- Monitored and fine-tuned performance using **React Profiler** for real-time insights into rendering efficiency.
- Developed robust back-end integrations with **Express.js** and **Node.js** to support seamless API communication.
- Implemented efficient data fetching and mutation techniques with **GraphQL** for optimized data management.
- Leveraged **AJAX** to perform asynchronous data requests, ensuring real-time content updates without page reloads.
- Streamlined build and deployment processes by setting up **Jenkins (CI/CD)** pipelines for continuous integration.
- Ensured quality assurance by developing automated tests with **Selenium** for end-to-end testing and **Jest** for unit testing.
- Designed and refined user interfaces using **Photoshop** and **Figma** to create engaging and intuitive UI/UX prototypes.
- Produced and maintained comprehensive **technical documentation** to facilitate knowledge sharing and future scalability.
- Deployed and managed cloud infrastructure on **AWS**—including **S3**, **CloudFront**, **AWS Amplify**, **Lambda**, **CloudWatch**, and **Secrets Manager**—to ensure secure and scalable hosting.
- Led initiatives to integrate cutting-edge front-end technologies, mentoring team members and driving continuous process improvements.
- Managed local data persistence using **Async Storage** and secured sensitive data with **Secure Storage** for mobile apps.
- Crafted flexible, responsive layouts using **Flexbox**, ensuring consistent design across various devices.
- Developed efficiently in **VS Code**, utilizing its debugging and extension capabilities to enhance productivity.
- Collaborated within an **Agile** framework and tracked progress using **JIRA** to deliver projects on time.

**Environment:** HTML5, CSS3, JavaScript (ES6+), JSX, React.js, Next.js (SSR), React Native, Expo, React Hooks, React Router, Redux, Styled Components, Docker, MySQL, MongoDB, XML, OAuth 2.0, Git, NPM, Lazy Loading, Tree Shaking, React Profiler, Express.js, Node.js, Jenkins (CI/CD), Jest, Photoshop, Figma, AWS, Async Storage, Secure Storage, Flexbox, VS Code, JIRA.

**Government of Singapore Investment Corporation, Singapore.**  
**Sr. UI Developer/ Front-End Developer | Jun 2023 - Apr 2024**

**Roles & Responsibilities:**

- Developed responsive and accessible UIs using **HTML5, CSS3, SASS, and Material-UI**, ensuring device compatibility.
- Built and optimized **React Components** to improve modularity and reusability.
- Designed and developed a web application by using React JS on front-end and using Web API to receive and pass data to back-end.
- Involved in using React JS components, Forms, Events, Keys, Router, Animations and Redux concept.
- Implemented **JWT Authentication** for secure user authentication and authorization.
- Developed **single-page applications (SPA)** using **React** with **TypeScript**, ensuring maintainability and scalability.
- Build UI, develop, test and document components using **Storybook**
- Implemented **Redux** for state management, and used **Reselect** optimizing data flow and application performance.
- Designed and integrated **RESTful APIs** using **Postman** for efficient API testing and debugging.
- Managed dependencies and package installations using **YARN**, ensuring a consistent development environment.
- Containerized applications with **Docker** were deployed using **Kubernetes** for scalability and fault tolerance.
- Utilized **Redux Saga** to handle asynchronous operations, perform reactive programming, and improve user interactions.
- Used **Cypress** for end-to-end testing and generated reports to make the real user interactions, useful for Product owners and devs
- Used **NextJS** for Server side rendering to pre-render static data and components
- Implemented **CI/CD pipelines in Azure DevOps**, automating build, test, and deployment processes.
- Conducted **Lighthouse audits** to enhance performance, SEO, and accessibility of web applications.
- Ensured **Web Accessibility** compliance by following **WCAG guidelines**, improving inclusivity.
- Integrated **Ag-Grid** for handling large datasets efficiently with advanced grid features.
- Configured **Webpack** to optimize application performance through bundling and code splitting.
- Utilized **GitHub** for version control, managing branches, and maintaining CI/CD workflows.
- Developed UI components following **Material Design** principles for a modern and intuitive user experience.
- Created and maintained **unit and integration tests** using **Jasmine and Enzyme**, ensuring code quality.
- Implemented best practices for **front-end performance optimization**, ensuring fast and smooth user experiences.
- Worked within an **Agile-Scrum** environment, participating in daily stand-ups, sprint planning, and retrospectives using **JIRA**.
- Worked regularly with Designers using Figma to continuously improve the product and update functionality.

**Environment:** HTML5, CSS3, SASS, Material-UI, React, TypeScript, React Router Dom, JWT, Saga, RESTful APIs, Postman, YARN, Docker, Kubernetes, Azure Services, Azure DevOps, CI/CD, Lighthouse, Ag-Grid, Webpack, GitHub, Material Design, Jasmine, Enzyme, WebStorm, Agile-Scrum, JIRA, Adobe XD, Illustrator.

**DBS Bank, Singapore**  
**UI Developer | Aug 2022 - May 2023**

**Roles & Responsibilities:**

- Developed **responsive UI components** using **React, TypeScript, and Tailwind CSS**, ensuring seamless user experiences across devices.
- Developed and consumed **RESTful APIs**, integrating front-end interfaces with back-end services for seamless data exchange.
- Built cross-platform mobile apps with **React Native**, leveraging **React Native CLI** and **Expo** for streamlined development.
- Ensured **cross-browser compatibility** and maintained **responsive design** best practices to deliver consistent experiences across multiple platforms.
- Conducted **unit testing** with **Jest and Enzyme**, providing application reliability and preventing regressions.
- Automated build and deployment pipelines using **Jenkins and CI/CD**, accelerating development and deployment cycles.

- Followed **Agile and Kanban methodologies**, collaborating with cross-functional teams to meet project milestones efficiently.
- Designed and implemented **modular architecture** to enhance code **reusability, scalability, and maintainability** in **single-page applications (SPA)**.
- Built **accessible web applications** adhering to **WCAG accessibility standards**, improving user usability.
- Optimized front-end performance using **code splitting, lazy loading, and React Router**, reducing initial load times and enhancing efficiency.
- Implemented **Context API** for state management, ensuring smooth data flow and improving application performance.
- Enhanced mobile navigation by implementing **React Native Navigation** solutions, such as **React Navigation** and **Stack Navigator**, for smooth user transitions.
- Created **drag-and-drop features** using the **Canvas API**, enhancing interactivity and user engagement.
- Configured **Babel and ES6+** to enable modern JavaScript features while ensuring compatibility with older browsers.
- Debugged and resolved UI issues through performance monitoring, browser dev tools, and rigorous testing procedures.
- Engaged in continuous learning, staying updated with **UI development trends, emerging technologies, and best practices** to enhance product quality.
- Maintained **version control** using **BitBucket**, ensuring smooth collaboration and code integrity across multiple developers.
- Applied **Java OOP principles** to structure front-end code efficiently and facilitate seamless **front-end and back-end integration**.
- Documented technical implementations, UI components, and workflows in **Confluence**, enhancing knowledge sharing across teams.
- Designed and optimized **user interfaces (UI/UX)** by focusing on intuitive navigation and visually appealing layouts.

**Environment:** React, TypeScript, ReactNative, TailwindCSS, RESTful APIs, Jest, Enzyme, Jenkins, CI/CD, Agile, Kanban, WCAG, React Router, Context API, Canvas API, Babel, ES6+, BitBucket, Java OOP, Confluence.

**Bluenav, France.**

**Front-End Developer | Apr 2021 - Jun 2022**

#### **Roles & Responsibilities:**

- Developed **Dashboard app** for Boat MFD screen using **ReactJS**, implementing efficient **routing** to enhance application modularity and maintainability.
- Created **responsive MFD widgets** with **Bootstrap, SASS, CSS3, and JavaScript**, improving cross-device compatibility and user engagement.
- Implemented drag and drop, resize the widgets **using React-grid-layout**.
- Created data visualizations with **D3.js**, converting complex datasets into interactive charts and graphs.
- Developed animated widgets like battery, accelerometer, engines, CO2 based on the real time data coming from the boat engines using **SingalK** gateway
- Utilized templates, dependency injection, and component-based development in the architecture.
- Performed **usability testing** to improve user experience, making data-driven improvements to UI design and accessibility.
- Deployed dashboard App to different MFD screen using python script.
- Used **Cerbogx** device and deployed the app to the **Venus** Operating system, used **NMEA 2000** and Signalk to set up a connection between MFD and Cerbogx
- Utilized **Git** for version control, efficiently managing repositories, branching strategies, and collaboration across development teams.
- Automated build and deployment processes using **CI/CD pipelines in Jenkins**, ensuring seamless integration and rapid release cycles.
- Implemented **performance optimization** techniques (lazy loading, code splitting, asset minification) to improve application load times.
- Used **React-i18next** for internationalization (i18n) to translate the app into multiple languages.
- Dynamically changed the language using **URLSearchParams** and window navigator.
- Developed **custom animations and transitions**, used **GSAP** lib and improving the user interface's visual appeal and interactivity.

- Tested the libraries using **Bundlephobia** and **ImportCost** extension in VSCode before installing, and used lightweight libraries to develop the widgets
- Migrated and **refactored legacy codebases**, improving maintainability, scalability, and performance while ensuring compatibility with modern frameworks.
- Conducted **unit testing with React testing library**, writing robust test cases to validate UI components and business logic, ensuring application reliability.
- Used **Chrome and Firefox Developer Tools** for debugging, performance analysis, and optimizing rendering speed.

**Environment:** ReactJS, Bootstrap, CSS3, JavaScript, Typescript, SASS, D3.JS, Git, Jenkins, CI/CD, Trello, Chrome Developer Tools, Firefox Developer Tools, Python, SignalK, Venus-OS

## QIQIA, Toulouse, France

**Software Developer | Apr 2020 – Apr 2021**

### Roles & Responsibilities:

- Created and maintained **AngularJS components and services**, improving application modularity and reusability for scalable development.
- Used **NgRx** to share state across components.
- Applied **SEO best practices**, including metadata optimization, structured data implementation, and performance enhancements, improving website ranking and visibility.
- Utilized **DOM manipulation** for dynamic web page content updates.
- Designed and developed **responsive web applications** using **Bootstrap, HTML5, CSS3, and JavaScript**, providing seamless user experiences across multiple devices and browsers.
- Implemented **AJAX-based dynamic content loading**, optimizing performance and reducing page reload times for improved responsiveness.
- Developed and integrated **RESTful APIs** to facilitate seamless communication between front-end and back-end systems, ensuring efficient data retrieval and updates.
- Developed and maintained **XHTML-compliant code**, ensuring adherence to web standards and improving cross-browser compatibility.
- Integrated **Google Spreadsheets APIs** to automate data processing and enable real-time synchronization of spreadsheet data with web applications.
- Utilized **Git version control** for collaborative development, managing branches, resolving merge conflicts, and maintaining code integrity.
- Optimized **website performance** by minifying assets, lazy-loading images, and implementing caching strategies, enhancing speed and efficiency.
- Managed **web assets**, including CSS stylesheets, JavaScript files, and media resources, ensuring streamlined loading and improved scalability.
- Designed and consumed **web services**, enabling seamless data exchange between distributed systems for enhanced application functionality.
- Integrated **Lightbox plugins and media galleries**, enhancing the visual appeal and user experience of image and video presentations on web platforms.
- Ensured **scalability and maintainability** of web applications by following best coding practices, optimizing database queries, and modularizing code structure.

**Environment:** AngularJS, jQuery, SEO, DOM, Bootstrap, HTML5, CSS3, JavaScript, AJAX, NgRx, RESTful APIs, XHTML, Google Spreadsheets APIs, Git, Lightbox, caching strategies.

## Kaliva, Guyancourt, France.

**Web Developer | Mar 2019 - Mar 2020**

### Roles & Responsibilities:

- Administered relational (**MySQL**) and NoSQL (**MongoDB**) databases, executing efficient data storage, retrieval, and manipulation strategies.
- Integrated and consumed **RESTful APIs** to enable seamless communication between front-end and back-end components.



- Developed responsive web applications using **HTML5, CSS3, and Bootstrap**, ensuring cross-browser compatibility and mobile-friendly designs.
- Built dynamic, interactive user interfaces with **JavaScript and React**, optimizing performance and user experience through efficient state management.
- Developed high-performance back-end applications with **Node.js and Express**, focusing on efficient data processing and robust application logic.
- Utilized **Git** for version control, managing collaborative development workflows, and ensuring code integrity.
- Debugged and optimized web applications using **Chrome DevTools**, identifying performance bottlenecks and improving load times.
- Implemented **user authentication and authorization** using secure methods such as JWT for session-based authentication.
- Worked in an **Agile** development environment, collaborating with cross-functional teams to deliver features in iterative sprints.
- Enhanced database performance through **query optimization** techniques, reducing latency and improving scalability.
- Applied Redis and in-memory caching strategies to enhance application speed and efficiency.
- Created intuitive and engaging user interfaces, incorporating **UX/UI best practices** to provide accessibility and usability.
- Conducted **code reviews** to ensure clean, maintainable, and efficient code, fostering collaboration and knowledge sharing within the team.
- **Implemented CI/CD** pipelines, streamlining development, testing, and deployment processes.

**Environment:** MySQL, MongoDB, RESTful APIs, HTML5, CSS3, Bootstrap, JavaScript, React, Node.js, Express, Git, Chrome DevTools, JWT, Agile, Redis, CI/CD.

#### **Optus Infotech PVT LTD, India.**

**Front End Developer | Jun 2015 - May 2016**

#### **Roles & Responsibilities:**

##### **Context:**

- Sorting the profiles of people who earns the minimum wage, based on their business, suggests a match to that person. This is the main intention of ELITE.
- 90% Front-end, 10% Back-End
- Project Name: Elite Matrimony
- Activities:
- Developed the website in accordance with the requirements of Clients.
- Developed ergonomic User Interface using HTML, CSS, Bootstrap and JavaScript.
- Designed prototypes based on the tasks
- Back-End development done via Java.
- Versioning via Git.

**Environment:** HTML5, CSS3, Bootstrap, JavaScript, Java

## **EDUCATION**

- Masters in Finance & Information Technology, Ecloe PIFT, Paris, France, OCT 2016 – 2018
- Bachelor's Degree in Electronics & Communication Engineering, VRS&YRN College of Engineering & Tech, JNT University, India. JUL 2011– 2015