

# Guru Sai Pranay

Senior software Engineer | Front-End Developer

## PROFESSIONAL SUMMARY

- Around **4+** 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 **Material-UI**, Styled Components, Tailwind CSS, **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.
- Good experience in writing **clean, efficient, and maintainable code**.
- 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.
- Handled **MicroFrontEnd** architecture using module federation using a shell application

## TECHNICAL SKILL

Category	Details
Programming Languages	HTML5, CSS3, JavaScript (ES6+), JSX, TypeScript, Python, Java
Frameworks & Libraries	React.js / React, Next.js, React Native, React Native CLI, Expo, Redux, Styled Components, NativeBase, Angular, AngularJS, NgRx, .NET, Material-UI, JQuery.2, Tailwind CSS, Express.js, Node.js, GraphQL, D3.js, Maps, 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, Secrets Manager, Azure, App Service, Static Web Apps, Netlify, Vercel
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
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

Category	Details
Monitoring tool & API	Datadog, Real User Monitoring

## EXPERIENCE

**Client:**US Bank, Minneapolis, MN  
**Senior Software Engineer** | Sep 2023 – Nov 2024

### Roles & Responsibilities:

- Crafted semantic, accessible layouts with **HTML5, CSS3, SASS, and TailwindCSS** implementing **Responsive & Adaptive Design** techniques.
- Enhanced interactivity and functionality using **JavaScript (ES6+) and Typescript** 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 and Saga**.
- Used **Material UI** components across the application.
- 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.
- Handled **HTTP requests** from the server
- Maintained code quality and version control through **Git** and managed dependencies with **NPM**.
- Followed **WCAG** standards across for the entire application
- Optimized application performance with **Lazy Loading** and **Tree Shaking** to reduce bundle sizes and improve load times.
- Used **React-i18next** for internationalization (i18n) to translate the app into multiple languages.
- Used Chrome dev tool **lighthouse** for SEO optimization.
- Performed **TTD** using **React Testing library** and **Enzyme**.
- Monitored and fine-tuned performance using **React Profiler** for real-time insights into rendering efficiency.
- Used **Vite** for bundling.
- **Integrated Headless CMS (Contentful) into the dashboard to manage dynamic content efficiently.**
- Developed robust back-end integrations with **Express.js** and **Node.js** to support seamless API communication.
- Used **Mocha framework and Chai** to write test cases for Node.Js files.
- Implemented efficient data fetching and mutation techniques with **GraphQL** for optimized data management.
- Streamlined build and deployment processes by setting up **GitHub(CI/CD)** pipelines for continuous integration.
- Designed and refined user interfaces using **Figma** to create engaging and intuitive UI/UX prototypes.
- Familiar with **Figma Plugins and Community UI Kits** to enhance wire framing speed.
- 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, collaborate with cross-functional teams to develop and enhance user-facing features**, and driving continuous process improvements.
- Managed local data persistence using **Async Storage** and secured sensitive data with **Secure Storage** for mobile apps.
- **Implemented a Microfrontend Architecture** for a modular and scalable dashboard application.
- Enabled **PWA's** installability on desktops and mobile devices for an app-like experience.
- 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, Styled Components, JavaScript (ES6+), JSX, React.js, Next.js (SSR), React Native, Expo, React Hooks, React Router, Redux, Saga, Styled Components, React Testing Library, Contentful, Docker, MySQL, MongoDB, XML, OAuth 2.0, Git, NPM, Lazy Loading, Tree Shaking, React Profiler, Express.js, Node.js, GraphQL, Jenkins (CI/CD), Jest, Photoshop, Figma, Azure, Async Storage, Secure Storage, Flexbox, Microfrontend, VS Code, JIRA.

**Client:**Government of Singapore Investment Corporation, Singapore.  
**Software Engineer**| Apr 2022 – Aug 2023

### Roles & Responsibilities:

- Developed responsive and accessible UIs using **HTML5, CSS3, SASS**, ensuring device compatibility.
- Built and optimized **React Components** using **Javascript and Typescript** to improve modularity and reusability.
- Used **CSS Tailwind** for styling and **Styled components**.
- Used **Next.JS** for Server side rendering to pre-render static data and components
- 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**
- Build the App using **Webpack** module bundler
- Implemented **Redux and Saga** 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 data storage solutions with **PostgreSQL**, ensuring efficient data retrieval and integrity.
- Developed a **GraphQL API** using **Express.js & Apollo Server** for efficient banking transactions
- 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 and Saga** to handle state management, asynchronous operations, perform reactive programming, and improve user interactions.
- Handled Unit test cases using **React testing library and Enzyme**
- Used **Cypress** for end-to-end testing and generated reports to make the real user interactions, useful for Product owners and devs.
- Verified the API controllers and services in **JAVA spring boot**, used **POSTMAN** to check the endpoints
- Optimized the app using **Lazy loading and code splitting** approach
- Conducted **Lighthouse audits** to enhance performance, SEO, and accessibility of web applications.
- Ensured **Web Accessibility** compliance by following **WCAG guidelines**, improving inclusivity.’
- **Used Webpack Module Federation** to enable independent deployment of dashboard modules for Analytics, User Management, Reports.
- 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 **Jenkins 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.
- Created **wireframes** using **Figma**.
- Use the **Prototype** tab to link screens together for navigation
- Worked within an **Agile-Scrum** environment, participating in daily stand-ups, sprint planning, and retrospectives using **JIRA**.
- Worked regularly with **cross-functional teams, Backend, Product Owners and Designers** using Figma to continuously improve the product and update functionality.

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

**Client:** DBS Bank, Singapore  
**Software Engineer** | Sep 2020 – Feb 2022  
**Roles & Responsibilities:**

- Developed **responsive UI components** using **React, TypeScript, and Styled Components**, ensuring seamless user experiences across devices.
- Developed and consumed **RESTful APIs**, integrating front-end interfaces with back-end services for seamless data exchange.
- Used **NextJS** for **SSR, SSG and ISG**
- Improved **SEO** optimization using **NextJS** and **Head Component**
- 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 **GitLab CI/CD**, accelerating development and deployment cycles.
- Followed **Agile and Kanban methodologies**, collaborating with cross-functional teams to meet project milestones efficiently.
- Used **React-i18next** for internationalization (i18n) to translate the app into multiple languages
- 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 **Redux, Saga and 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.
- Used **Webpack** for app bundling.
- 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.
- Developed RESTFUL API's **using Node.js, Express.js**.
- Implemented **GraphQL schemas, queries, mutations, and subscriptions** for real-time data access.
- Used **Mongoose ORM** with GraphQL to efficiently handle complex banking transactions
- Written Test cases using **Chai** and used **Mocha** test runner
- 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)** using **Figma** by focusing on intuitive navigation and visually appealing layouts.

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

## EDUCATION

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- Masters in bussiness analytics, University of Hartford, Connecticut state, west Hartford, Jan 2024 – Dec 2025.
- 2016-2020: B. TECH COMPUTER SCIENCE ENGINEERING from PRIST UNIVERSITY. 6.81CGPA