Vijayakumar Chandrasekar

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PROFESSIONAL SUMMARY

Senior Full Stack Engineer with over 12+ years of comprehensive experience in designing and implementing both frontend and backend solutions. Skilled in a range of technologies and frameworks, with a strong emphasis on creating efficient, scalable, and maintainable applications.

Frontend Expertise: Proficient in developing frontend applications with **React.js** and **Vue.js**, utilizing **JSX**, **TypeScript**, and **ES6** for reusable component definition and managing component lifecycles, state, DOM events, and forms. Experienced in **React Query** for efficient data fetching, caching, and synchronization, **Redux Toolkit (RTK)** for simplified and efficient Redux state management, **Redux-Saga** for handling complex side effects and asynchronous actions and **React Router** for implementing dynamic and nested routing in single-page applications.

Backend Proficiency: Experienced with **Node.js, NextJS** and **Express.js** for building scalable server-side applications, **RESTful** API design, and **GraphQL** for efficient data querying and manipulation.

Micro Frontend Architecture: Successfully implemented micro frontend architecture using SPA frameworks, enabling modular development and independent deployment of frontend components, improving scalability and maintainability.

State Management: Implemented **Redux** and **Jotai** for efficient state management, using pure functions to create reducers and manage application data flow.

Data Visualization: Utilized **D3.js** for dynamic JavaScript data visualization and **Recharts** for creating charts and graphical representations.

AI Tools for Code Standard and Optimization: Proficient in using AI tools such as **GitHub Copilot** and **Tabnine** to enhance coding standards and quality, and **CoderabbitAI** for PR review, providing real-time suggestions, automated code generation, and debugging assistance.

Responsive Web Design: Implemented mobile-first responsive designs using Bootstrap 4, Tailwind UI and CSS3 Grid System, integrating SVG sprites, Media Queries, Fluid Layouts, and Responsive Layouts for optimal user experience across devices.

Advanced JavaScript Proficiency: Strong command of ES5 and ES6 features such as closures, arrow functions, rest, spread, destructuring, classes, promises, map, and template literals etc.,

Tooling and Optimization: Utilized Babel, Grunt, **Webpack** and **ViteJS** for bundling, minification, compilation, and code cleaning, ensuring high performance and maintainability of frontend code.

Testing and Quality Assurance: Proficient in testing React components using Nemo, Mocha, and JEST, ensuring robust and reliable frontend applications.

CI/CD and DevOps: Experienced in CI/CD processes using **Git**, **Jenkins**, **Docker**, and **GitHub Actions**, and proficient in using issue tracking tools like **JIRA** and **Trello** for efficient project management.

Observability: Experienced with observability tools such as **Datadog**, **Splunk**, and **Grafana** for monitoring application performance, logging, and enhancing system observability.

SKILLS

Front-End Programming

LANGUAGES: JavaScript, TypeScript, CSS, HTML
FRAMEWORKS & LIBRARIES: React JS, Vue JS, Redux, Dust JS, Angular JS, jQuery
UI & STYLING: Bootstrap, Tailwind CSS, Material UI, LESS
BUILD TOOLS: Webpack, Vite JS

Back-End Programming

LANGUAGES: NodeJS, Next JS, Express, Basics of Python and PHP
API: REST API, GraphQL, Postman, Swagger

Unit Testing & Frameworks

Jest, Mocha, Nemo, Cypress and Playwright

Databases

RELATIONAL: PostgreSQL
NoSQL: MongoDB

Feature Flag & AB Testing Tools

Flagsmith, LaunchDarkly with OpenFeature specification, Adobe Test & Target, PXP (PayPal Experimentation Platform), ELMO

IDE and Design Tools

VS Code, WebStorm, Sublime Text, Brackets, Adobe Photoshop

Project Management Tools

JIRA, Trello Board, Kanban Tool

DevOps

CI/CD: Jenkins, Code Pipeline, GitHub Actions
VERSION CONTROL: Git

Observability

MONITORING AND LOGGING: Kibana, Grafana, Splunk, Cal
APPLICATION PERFORMANCE MANAGEMENT: Datadog

CERTIFICATIONS

W3C JavaScript Developer Certification.

Microsoft HTML5, CSS3 Certification.

W3C jQuery Developer Certification.

Completed several LinkedIn courses, including "ChatGPT for Web Developer" and "Building Single Page Applications (SPAs) in React"

Participated multiple technical conferences like Connect Tech, React Conf etc.,

PMG (Ad Tech): Working as a Senior Full stack Engineer.

Responsibilities:

o   Working as a Full Stack Engineer for the core platform, overseeing both frontend and backend activities and operations for the global Alli advertising platform.
o   Developed micro frontend applications using Single Page Application (SPA) frameworks, breaking down a monolithic frontend into smaller, autonomous modules. On the backend, designed and implemented microservices, enabling independent development and deployment of services.
o   Created a reusable component library using React and TypeScript integrated with Storybook. This library facilitated component reuse across all application levels (pillars), promoting consistency and efficiency in frontend development. On the backend, developed reusable modules and services to streamline backend processes.
o   Led the recent migration of our platform's frontend applications from React 16 to React 18. This involved planning, testing, and execution to ensure that we were utilizing React 18's latest features and enhancements, ensuring increased performance, security, and maintainability.
o   Designed and implemented RESTful APIs and GraphQL endpoints for efficient data querying and manipulation. Utilized Node.js and Express.js for backend services, ensuring scalability and robustness.
o   Actively mentor frontend developers within the organization, offering weekly office hours dedicated to providing guidance, support, and knowledge sharing. Through these sessions, I assist developers in overcoming challenges, enhancing their skills, and fostering a collaborative environment focused on continuous learning and improvement.

Duration: From January 2023 to till date

PayPal: Worked as a Senior Full Stack engineer.

Responsibilities:

o   Working as a full stack engineer in PayPal Messaging Team in customer success platform and build the chat application for global PayPal customer support.
o   Directly working with IBM Watson tool and genesis routing development team to integrate the chat bot in our chat application.
o   Connect with various engineering and business team to understand their needs to create and customize the chat bot based on their requirement for the internal support.
o   Responsible for creating React component and utilize for the multiple React chat applications. Also create and maintain the unit testing for the component using Jest unit testing framework.
o   Implemented various experimentation in the application level also monitoring and logging the user feedback based on the treatment to make sure provide the best experience to customers.

Duration: From October 2019 to January 2023

NESS (Client: PayPal): Worked as a Senior Member Technical Staff.

Responsibilities:

o   Managed both US and Canada Marketing development team to deliver all of the regional PayPal campaigns and promotions and ensure the quality of the product.

o   Track projects' statuses using project management systems like JIRA and Trello

o   Lead code reviews to drive team to the highest standards for React.js apps & Dust web apps.

o   Participated on **XOOM.Com** integration with MPP platform. In MPP side we showed the corresponding bank charges and XOOM fees based sending and receiving countries. Also integrated XOOM Fee Calculator in Send Money Marketing page.

o   As the lead engineer for North America, I serve as the primary point of contact for all US & Canada marketing stakeholders and am responsible for analyzing and refining all project requirements, advising on solutions, devising architectural plan for my engineering team, setting milestones and ensuring deadlines are met.

o   If the required solution needs third-party or any other PayPal systems integration, I organize a meeting with all relevant stakeholders to ascertain the integration parameters and technical feasibility of the interaction. I also work on creating proof of concepts prior to actual project implementation to make sure there is no unforeseen problems with integration also document the steps in Wiki pages for guiding other developers on the team.

o   I am also actively involved in the implementation of **Click-to-Chat**, a chat service that connects users to customer service reps, that is scheduled to be rolled out across all markets that PayPal operates in. In this implementation, my responsibility is to closely work with PayPal analytical team and web tracking (FPTI) team in order to help them capture and record the user actions on Click-to-Chat widget.

Duration: From August 2014 to September 2019

TATA Consultancy Services (TCS): Worked as a Front-end developer.

Designation: IT Analyst

Responsibilities:

o   Act as a Module Lead for THD SCM (The Home Depot).

o   Provide status reporting of team activities against the program plan or schedule

o   Ensure deliverables are prepared to satisfy the project requirements and schedule

Duration: From November 2013 to August 2014

Cognizant Technology Solutions (CTS): Worked as a JavaScript/jQuery

Developer **Designation:** Associate - Projects

Responsibilities:

o   Communicated with back-end developers, system engineers and web designers to receive data needed for development.

o   Interacted and coordinated with technical teams and creative designers to integrate front end design with back-end technology.

Duration: From March 2011 to November 2013.

Synamen Technologies: Worked as software engineer

Responsibilities:

- o Creating, updating, and maintaining multiple web sites, portal.
- o Handling web development projects which include requirement analysis, design, development and database creation and maintenance.
- o Web Programming, script development.
- o Designing graphics, logos, and animation for websites
- o Ensuring web site quality, performance, and reliability
- o Cloud hosting and MySQL database performance tuning

Duration: 36 months (From Nov 2007 to Feb 2011)

EDUCATION

Bachelor of Electronics & Computer Science from SASTRA UNIVERSITY, Tanjore in April 2006.

Master of Computer Application (MCA) from SASTRA UNIVERSITY, Tanjore in April 2008 with First Class.