

# Vijayakumar M

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## Profile

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Over 5+ years of IT experience specializing in React JS, Javascript, CSS, SASS, Webpack, Jest, Axe Auditor, SQL and Next.js. Proven ability to create reusable components, optimize web performance, and build accessible, high-quality applications using front-end and back-end integration techniques. Skilled in Agile development and a team player with strong problem-solving abilities.

## Skills

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- **Programming Languages:** JavaScript, TypeScript
- **Web Technologies:** HTML, CSS, SASS, Bootstrap, Webpack
- **Frameworks/Libraries:** React.js, Redux, Next.js, Node.js, Accessibility (WCAG)
- **Databases:** SQL Server, MySQL
- **Cloud Technologies:** Microsoft Azure
- **Version Control:** Git, GitHub, GitLab
- **Testing Frameworks:** Jest, React Testing Library

## Certifications

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- **Microsoft Certified: Azure Fundamentals (AZ-900)** - *Issued in [sep, 2023]*
- **Microsoft Certified: Azure Developer Associate (AZ-204)** - *Issued in [Aug, 2025]*

## Professional Experience & Projects

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**System Engineer — Tata Consultancy Services**  
**Chennai, Tamil Nadu — Jul 2022 – Present**

**Project: U.S. Bank Role and Account**

- Front-end development focusing on secure, optimized web pages for role and account management.
- **Designing Intuitive User Interfaces:** Collaborated with UX/UI designers to create visually appealing and accessible interfaces.
- **State Management with Redux:** Implemented Redux for seamless data flow and synchronization across components, improving application performance.
- **Accessibility Compliance:** Conducted accessibility evaluations using **Axe Auditor**, enhancing usability for individuals with disabilities.
- **Performance Optimization:** Employed lazy loading, code splitting, and minimizing render cycles for faster load times.
- **API Integration:** Worked with back-end developers to ensure robust API integration, enabling real-time data retrieval for token management.
- **Unit Testing:** Developed and executed unit tests using Jest and React Testing Library, ensuring high-quality code.

**Technologies:** React.js, Redux, SASS, Webpack, Accessibility, Jest, React Testing Library

**Software Development Engineer — Zionext Pte. Ltd**  
**Chennai, Tamil Nadu — Sep 2021 – Jul 2022**

**Project: Pencil Learn**

- **Development of Reusable UI Components:** Created a library of reusable UI components for design consistency and faster development.

- **User Interface Design:** Collaborated with designers to create visually engaging interfaces, enhancing user satisfaction.
- **State Management:** Used Redux for efficient state management, ensuring smooth transitions and reliable data handling.
- **Performance Enhancements:** Implemented memoization and asynchronous loading to optimize responsiveness and load times.
- **Cross-Team Collaboration:** Worked with product managers and QA teams to align on features, gather feedback, and refine user stories.
- **Testing and Validation:** Wrote unit and integration tests to validate component functionality and ensure robustness of the application.

**Technologies:** React.js, Redux, TypeScript, HTML, SASS, Bootstrap

**Associate Software Developer — DMI**  
**Chennai, Tamil Nadu — Oct 2019 – May 2021**

**Project: Ecom Daily News**

- **Component Development:** Developed reusable UI components using React JS, making the application modular and maintainable.
- **API Integration:** Integrated third-party news APIs to fetch and display real-time news articles, ensuring timely information for users.
- **User Experience Focus:** Collaborated with the team to implement a responsive design for accessibility and usability across devices.
- **Styling and Layout:** Used SASS and Bootstrap to style the application, enhancing the overall visual appeal of the user interface.
- **Testing and Debugging:** Conducted thorough testing and debugging to ensure functionality and responsiveness.

**Technologies:** React.js, HTML, SASS, Bootstrap, Node.js

**Project: General Motors**

- **AWS Amplify Integration:** Used AWS Amplify for user authentication and access control, providing a secure interface for uploading and downloading images.
- **S3 Storage Management:** Configured and managed AWS S3 buckets to store and retrieve images efficiently.
- **Frontend Development:** Developed a user-friendly front end with React JS for seamless image uploads and downloads.
- **Web Scraping Automation:** Built a Java-based web scraping solution to automate image downloads for model training, utilizing AWS SDK for cloud storage and Authentication mechanisms for secure data access.
- **Image Feed to Python Model:** Integrated the image download module with a Python-based model training pipeline, feeding the scraped images to the model for training and accuracy deduction using machine learning libraries like TensorFlow or PyTorch.
- **Performance Monitoring:** Optimized the scraping logic to ensure minimal downtime and efficient resource use.

**Technologies:** Java, Python, AWS, React.js, HTML, CSS, Bootstrap

**Project: California Dental Association**

- Designed and developed reports using **Cognos** and **Guidewire Mapping** to support data analysis and decision-making.
- Created interactive dashboards using **Power BI** to visualize key performance indicators.
- Used **Cognos** to generate complex reports, validated with SQL queries to ensure data accuracy.
- Managed databases and performed queries using **SQL Server**.

**Technologies:** Guidewire Mapping, Power BI, Cognos, SQL Server

## Education

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**B.E. Mechanical Engineering**, K.S. Rangasamy College of Technology, Tiruchengode.