Satyabrata Sahoo

MERN Stack Developer
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Technical Competencies

Languages: JavaScript, TypeScript
Front-end Technologies: React, React-Native, Angular, Electronic Js, Next JS, HTML, CSS, SCSS
CSS-Framework: Bootstrap, Tailwind CSS
Backend Technologies: Node Js, Nest Js, Django
Database: TypeORM, NoSQL (MongoDB), MySQL, PostgreSQL
DevOps: Docker
Version Control: Git, CI, CD
Agile Methodology: Jira, Teams Board, Trello Board,
Cloud: AWS(EC2), Azure (SSO Authentication)
Operating-System: Mac, Linux (Ubuntu), Windows

Dynamic and results-driven MERN stack developer with 4.8 years of comprehensive experience in designing, implementing, and deploying cutting-edge web applications. Proficient in React, React-Native, Angular, Node.js, Nest.js, and Next.js, with a strong focus on delivering scalable solutions. Demonstrated expertise in cloud technologies, specializing in Azure and AWS, including successful EC2 instance deployments and Heroku integrations.

My skill set encompasses advanced authentication mechanisms, utilizing Azure Authentication and JWT authentication, ensuring robust security protocols. I bring a wealth of experience in enhancing user interaction through the seamless integration of mail and SMS functionalities.

Well-versed in version control with Git, I am accustomed to collaborating in agile environments using Jira, ensuring efficient project management and delivery. My proficiency in JavaScript and TypeScript, coupled with extensive database knowledge in MongoDB and MySQL, allows me to create versatile and high-performance applications.

I am committed to staying ahead of industry trends and adopting best practices to deliver innovative solutions. With a solid foundation in software development, cloud technologies, and agile methodologies, I am eager to contribute my skills to dynamic and forward-thinking teams.

Professional Experience

Tata Consultancy Services (TCS) (26/10/2022 – *Present*)

System Engineer

- Played a key role in designing and developing large-scale software systems, meeting, and exceeding customer expectations.

- Applied strong computer science skills to ensure the scalability, maintainability, and efficiency of the UI layer.

- Collaborated with cross-functional teams to uphold coding standards, conduct code reviews, and manage source control effectively.

- Leveraged knowledge of professional software engineering best practices throughout the software development life cycle.

- Successfully resolved real-time troubleshooting scenarios, ensuring smooth application performance.

- Integrated Azure SSO login for enhanced security measures, contributing to a robust authentication process.

Projects

BUIT Customer Engagement Tool (CET) (2022 – present)

- Develop responsive and dynamic user interfaces using React.js and Next.js for US (Indianapolis) based clients.
- Implement state management with Redux to ensure efficient data flow and consistent application state.
- Design and implement RESTful APIs using Node.js and Nest.js for seamless communication with the frontend.
- Implement authentication and authorization using JWT (JSON Web Tokens) to secure API endpoints.
- Develop server-side logic to handle data processing, validation, and storage.

- Implement middleware for handling cross-cutting concerns like logging, caching, and error handling.
- React Js, Next Js, Node Js, Nest Js, MySQL, Aws Ec2, Azure Authentication, Material UI, Tailwind CSS, Twilio (SMS integration), Node Cache (caching), Node Mailer, File Module System
- Os (Operating System)-Used: Windows

E-Modernization (Ects Modernization) (2021 – 2023)

- Collaborate with UX/UI designers to translate design mockups into interactive web applications.
- Integrate third-party APIs and services to enhance application functionality.
- Design and implement RESTful APIs using Node.js and Nest.js for seamless communication with the frontend.
- Optimize front-end code for performance and maintainability.
- Implement Azure services for authentication (Azure AD) and other cloud-based functionalities.
- Implement middleware for handling cross-cutting concerns like logging, caching, and error handling.
- Conduct thorough debugging and troubleshooting to identify and resolve issues promptly.
- Monitor and analyze application logs to proactively address potential problems.
- React Js, Next Js, Node Js, Nest Js, MySQL, Aws Ec2, Azure Authentication, Material UI, Tailwind CSS, Twilio (SMS integration), Node Cache (caching), Node Mailer, File Module System
- Os (Operating System)-Used: Windows

LillyPlay (2021 – 2023)

- Develop a robust cross-platform mobile application using React Native that seamlessly integrates with MongoDB as the database and is powered by a Node.js and Express.js backend.
- The application will implement OAuth authentication for secure user access and will include a role-based authentication system to manage different levels of user permissions.
- Development environments such as Xcode and Android Studio will be utilized for iOS and Android platforms, respectively, ensuring a smooth user experience on both devices.
- Implemented a role-based authentication system to control user access and permissions within the application.
- Define roles such as admin, user, and guest, each with specific privileges and restrictions.
- Build a scalable and efficient server-side using Node.js and Express.js to handle business logic, authentication, and communication with the database.
- Utilize Xcode for iOS application development and Gradle along with Android Studio for Android application development.
- Ensure that the application is optimized for performance on both platforms.
- React Native, Node Js, MongoDB, RNUI lib, Grid System, Node Mailer, File Module System

Right Avenue Infotech (RA Infotech) (08/04/2019 – 25/10/2022)

Software Developer

- Spearheaded the development of single-page HTML5 applications using React, consistently delivering high-quality, responsive user interfaces.

- Applied proficient UI patterns and techniques, resolving common UI problems to enhance user experience.

- Demonstrated expertise in RESTful API design, collaborating closely with backend teams to create seamless web applications.

- Engaged in Test-Driven Development (TDD) with a focus on unit and integration tests, employing mocking and stubbing techniques for efficient testing processes.

- Utilized solid understanding of software design patterns to refactor and simplify complex code, optimizing overall system performance.

- Actively participated in Agile environments, contributing to the iterative development process, and ensuring timely project deliveries.

- Implemented CI/CD pipeline build processes using Azure DevOps, streamlining development workflows, and enhancing deployment efficiency.

Projects

ST-APP (Surgery Tracker Application) (2019 – 2022)

- Develop responsive and dynamic user interfaces using React.js and Next.js for US (Indianapolis) based clients.

- Implement state management with Redux to ensure efficient data flow and consistent application state.
- Design and implement RESTful APIs using Node.js and Nest.js for seamless communication with the frontend.
- Implement authentication and authorization using JWT (JSON Web Tokens) to secure API endpoints.
- Develop server-side logic to handle data processing, validation, and storage.
- Implement middleware for handling cross-cutting concerns like logging, caching, and error handling.
- React Js, Next Js, Node Js, Nest Js, MongoDB, Aws Ec2, Azure Authentication, Material UI, Tailwind CSS, Twilio (SMS integration), Node Cache (caching), Node Mailer, File Module System
- Os (Operating System)-Used: Mac

(Pre-Onboarding) Application (2019 – 2022)

- Develop android app using React-native for internal clients.
- Designed UI screens from Figma designs.
- Develop server-side logic using Node.js.
- Optimize backend code for performance and scalability.
- Implement JWT token for Api authentication.
- Implement and maintain server-side security measures.
- Design and implement the MongoDB database schema.
- Collaborate with backend developers to handle data storage and retrieval efficiently.
- React-Native, Node Js, Nest Js, MongoDB, Aws Ec2, JWT, Material UI, Twilio (SMS integration), Node Cache (caching), Node Mailer, File Module System
- Os (Operating System)-Used: Windows

FTE Tracker (2019 – 2022)

- Develop end-to-end features, including both frontend (React) and backend (Node.js) components.
- Design and implement RESTful APIs for communication between frontend and backend.
- Utilize MySQL for database design, implementation, and optimization.
- Implement user authentication and authorization using JWT.
- Integrate Azure Single Sign-On for seamless user authentication.
- Implement middleware for handling cross-cutting concerns like logging, caching, and error handling.
- Ensure the application is secure, scalable, and performs well.
- Conduct code reviews and provide constructive feedback.
- React Js, Next Js, Node Js, Nest Js, MongoDB, Aws Ec2, Azure Authentication, Material UI, Twilio (SMS integration), Node Cache (caching), Node Mailer, File Module System
- Os (Operating System)-Used: Linux

Ayuv (Health Tracker) (2019 – 2022)

- Create responsive and visually appealing android app using React-Native.
- Implement frontend components based on design specifications.
- Collaborate with the backend team to consume APIs and handle data.
- Ensure the frontend is optimized for performance and user experience.
- Develop server-side logic using Node.js.
- Design and implement RESTful APIs for communication with the frontend..
- Optimize backend code for performance and scalability.
- Implement and maintain server-side security measures.
- React-Native, Node Js, Nest Js, MySQL, Aws Ec2, Azure Authentication, Tailwind CSS, Twilio (SMS integration)
- Os (Operating System)-Used: Windows

PRV (2019 – 2022)

- Developed UI based on Figma designs.
- Integrate JWT package for decode tokens.
- Identify and address security vulnerabilities related to the application.
- Conduct security assessments for the entire stack.
- Stay informed about the latest security threats and best practices.
- Develop and execute test plans for both frontend and backend components.
- Verify the functionality and security of the application.
- Skills Used – React Js, Next Js, Node Js, Nest Js, MySQL, Aws Ec2, Azure Authentication, Tailwind CSS
- Os (Operating System)-Used: Linux

CityApp (2019 – 2022)

- Develop a mobile application using React Native, ensuring compatibility with both iOS and Android platforms to reach a broader user base.
- Utilize MongoDB as the backend database to store and manage application data efficiently.
- Development environments such as Xcode and Android Studio will be utilized for iOS and Android platforms, respectively, ensuring a smooth user experience on both devices.
- Implement OAuth authentication for secure user login and registration.
- Develop a user-friendly interface for seamless authentication processes.
- Build a scalable and efficient server-side using Node.js and Express.js to handle business logic, authentication, and communication with the database.
- Utilize Xcode for iOS application development and Gradle along with Android Studio for Android application development.
- React Native, Node Js, MongoDB, RNUI lib, Grid System, Node Mailer, File Module System

Education

Bhadrak Autonomous College – F M University

Bachelor of Science (Computer Science Honors)   (2014-2018)
- Passed in First class honors with distinction.