**SARTHAK MISHRA**

**Full Stack Developer**

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**Professional Summary:**

* Full Stack Developer with over 7 years of experience, specializing in the **MERN stack (MongoDB, Express.js, React, Node.js).**
* Proficient in multiple languages including **JavaScript, TypeScript, C++, and Python**, with extensive knowledge of various web technologies and frameworks.
* Developed scalable RESTful APIs and optimized performance, achieving significant reductions in API response times and boosting user engagement.
* Implemented robust security measures such as **JWT** authentication, data encryption, and XSS protection, enhancing application security.
* Managed databases including **MongoDB, MySQL, and PostgreSQL,** ensuring data integrity and optimizing performance.
* Led UI design and implementation using React and Angular, resulting in improved user experiences and increased engagement.
* Conducted comprehensive testing with Jest and Mocha, achieving high code coverage and significantly reducing production bugs.
* Utilized cloud technologies and containerization **(AWS, Docker**) to enhance scalability and maintainability of applications.
* Collaborated with cross-functional teams to align technical strategies with business objectives, ensuring successful project delivery.
* Experienced in **CI/CD** pipelines with tools like **Git, Git Actions, Jenkins, and Docker**, ensuring efficient and automated deployment processes.
* Implemented micro-frontend architecture to enhance modularity and scalability of applications.
* Authored and maintained **API** documentation using **Swagger UI,** ensuring clear and comprehensive documentation for developers.
* Mentored junior developers and fostered a collaborative team environment, promoting knowledge sharing and continuous improvement.
* Actively participated in agile methodologies including sprint planning, daily stand-ups, and retrospectives, ensuring timely delivery of features.

# Technical Skills

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| **Languages:** | JavaScript, TypeScript, C++, Python |
| **Mark-up/Web Technologies** | React, Redux, React Router, Material-UI, Angular, Webpack, Next.js, Ember.js, Tailwind CSS, React  Native |
| **Backend Frameworks** | Node.js, Express.js, RESTful APIs |
| **Database** | MongoDB, MySQL, PostgreSQL |
| **ORM** | GraphQL |
| **Cloud Technology** | AWS (Amazon Web Services) |
| **Version Controland CI/CD** | Git, Gitbucket, Jenkins, Git Actions, Docker |
| **IDEs** | VSCode |
| **Others** | Jest, Enzyme, JSON Web Token (JWT), Swagger UI,  Postman, Accessibility-WCAG, Figma [(Certification](https://bringyourownlaptop.com/cert/wsGiYEsSHdYBdFir9U4fh)) |

# Education

* Master of Science, California State University - 08/2021–05/2023|Chico, USA , Computer Science
* Bachelor of Technology, Siksha ‘O’ Anusandhan University - 07/2011–05/2015|Odisha, India Electrical and Electronics Engineering

# Professional Experience

**Client: Radiance Technologies, Jan/2023 – PRESENT Role: Full Stack Developer Location: San Francisco, CA**

**Description:**

Developed and optimized scalable RESTful APIs using Node.js and Express.js, achieving a 20% reduction in response times. Led UI design with React, boosting user engagement by 30% through a micro-frontend architecture. Enhanced security with JWT authentication, data encryption, and XSS protection. Managed MongoDB databases, ensuring 90% transaction success. Conducted comprehensive testing with Jest, achieving 87% code coverage and reducing production bugs by 50%. Collaborated with cross-functional teams, aligning technical strategies with business objectives and implementing best practices in API design and development.

**Responsibilities:**

* Developed scalable RESTful APIs utilizing Node.js and Express.js, resulting in increased uptime.
* Achieved a 20% reduction in API response times through optimization and performance enhancements.
* Led the design and implementation of UI using React, employing a micro-frontend architecture.
* Recorded a 30% boost in user engagement following the introduction of the new UI framework.
* Implemented JWT authentication to secure user sessions, data encryption to protect sensitive information, and XSS protection mechanisms to prevent cross-site scripting attacks, enhancing application security.
* Managed MongoDB databases, prioritizing data integrity and maintaining a 90% transaction success rate.
* Conducted comprehensive unit and integration testing using Jest as the primary testing framework.
* Achieved an impressive 87% code coverage across the project's codebase.
* Successfully decreased production bugs by 50% through rigorous testing protocols and bug resolution.
* Implemented best practices in API design and development to ensure robustness and scalability.
* Collaborated with cross-functional teams to align technical strategies with business objectives and user needs.
* Developed story/task by following TDD/BDD and Pair programming concepts.
* Gained actionable insights into application behaviour, enabling proactive monitoring, troubleshooting, and optimization of JavaScript-based projects
* Fixed the bugs in the existing application by tracking in JIRA.
* Used GITHUB for Repository Management.

**Tech Stack:** React, Node, Mongo, PostgreSQL, Express, Git , Git Actions, Nginx, JavaScript, Typescript, SCSS, HTML, Docker, AWS (S3 and EC2)

**Client: Innominds Software Pvt. Ltd july/ 2019 – Aug/2021**

**Role: Full Stack Developer Location: Hyderabad, India**

**Description:**

Actively contributed to multiple projects using technologies like React, Angular, Node.js, Express.js, and MongoDB. Ensured high code quality by authoring over 200 unit tests and introducing containerization for scalability. Collaborated with external developers to deliver new software applications and maintained API documentation with Swagger UI, integrating it into CI/CD pipelines. Developed interactive UIs and scalable backend systems, optimizing database performance and ensuring data integrity. Worked closely with cross-functional teams to align technical strategies with business goals, using JIRA for bug tracking and GitHub for repository management.

**Responsibilities:**

* Actively participated in the development of numerous projects catering to diverse client bases, employing a variety of technologies including React, Angular, Node.js, Express.js, and MongoDB.
* Authored and executed over 200 unit tests to ensure high code quality, resulting in a bug-free codebase throughout the entire Software Development Life Cycle (SDLC).
* Introduced containerization for all applications, leading to improved scalability and easier maintenance of the systems.
* Collaborated closely with external software developers to coordinate the successful delivery of four new software
* applications, thereby expanding the company’s software portfolio.
* Maintained up-to-date API documentation utilizing Swagger UI, and seamlessly integrated it into Continuous Integration/Continuous Deployment (CI/CD) pipelines for automated deployment using Git Actions.
* Utilized React to develop interactive and responsive user interfaces for various projects, enhancing user experience and engagement.
* Employed Angular for building dynamic and feature-rich web applications, ensuring compatibility across different platforms and browsers.
* Leveraged Node.js and Express.js to develop efficient and scalable backend systems, enabling seamless communication between the server and client sides of applications.
* Implemented MongoDB for data storage and management, optimizing database performance and ensuring data integrity across all projects.
* Collaborated with cross-functional teams to align technical strategies with business objectives, ensuring the timely delivery and success of each project.
* Fixed the bugs in the existing application by tracking in JIRA.
* Used GITHUB for Repository Management.

**Tech Stack:** React, Angular, Ember, C++, Java Spring Boot, Swagger UI, D3.js, JWT, Webpack, GraphQL, Node, MongoDB, PostgreSQL, Express, Git , Git Actions, Nginx, JavaScript, Typescript, SCSS, HTML, Docker, AWS

**Client: Infosys Limited Oct/2015 – june/2019**

**Role: Sr. Software Engineer Location: Hyderabad, India**

**Description:**

Played a key role in designing and implementing user interfaces for an internal licensing application using Angular, enhancing user experience and improving load speed by 15% with lazy loading and code splitting. Managed MySQL and PostgreSQL databases, optimizing CRUD operations and reducing query times by 25%. Developed over 200 unit and integration tests with Jest and Mocha, achieving 95% code coverage. Conducted thorough code reviews and adhered to best practices for high code quality. Actively participated in agile methodologies, collaborating with cross-functional teams to ensure timely delivery and continuous improvement. Provided ongoing support and maintenance, addressing issues promptly and enhancing application performance based on user feedback.

**Responsibilities:**

* Played a significant role in designing and implementing user interfaces for an internal licensing application using Angular, ensuring a seamless user experience.
* Improved application load speed by 15% by implementing efficient lazy loading techniques and code splitting within the Angular framework.
* Took charge of MySQL and PostgreSQL database transactions and APIs, focusing on implementing CRUD operations and effective data modelling strategies.
* Successfully reduced database query times by 25%, enhancing overall application performance and ensuring data consistency and integrity.
* Developed over 200 unit and integration tests using Jest and Mocha, achieving an impressive code coverage of 95% to ensure robust code quality and reliability.
* Conducted thorough code reviews and implemented best practices to maintain high standards of code quality, readability, and maintainability throughout the project.
* Actively participated in agile development methodologies, including sprint planning, daily stand-ups, and retrospectives, to ensure timely delivery of features and continuous improvement of processes.
* Collaborated closely with cross-functional teams including developers, designers, and product managers to gather requirements, prioritize tasks, and drive the successful delivery of the licensing application.
* Provided ongoing support and maintenance for the application post-deployment, addressing any issues or bugs promptly and continuously improving its performance and functionality based on user feedback.

**Tech Stack:** JavaScript, HTML, CSS, Angular, SVN, Git, Java Spring Boot