

Tajul Afreen

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SUMMARY

Experienced full-stack developer with one year of active experience in frontend and backend technologies. Proficient in languages such as HTML, CSS, JavaScript, Ruby, Python, and frameworks like React, Flask and Rails. Skilled in database management and API integration. Seeking opportunities to apply my diverse skill set and contribute to challenging projects as a full-stack developer.

EXPERIENCE

Full Stack Developer (Intern)

SBARI (South Bay Area of Research Institute)

Pioneering innovation in R&D, Cyber Security & Youth Empowerment.

May 2024 - Dec 2024, Gilroy, California, United States

- Contributed to developing scalable web apps, collaborating with cross-functional teams for timely feature delivery.
- Designed and implemented user-friendly React/Redux frontend interfaces, ensuring performance and accessibility.
- Developed robust backend systems using Python, MongoDB, and Firebase to enhance application functionality and scalability.
- Conducted code reviews and participated in agile processes, ensuring best practices and coding standards.
- Optimized database queries and API endpoints, reducing load times by 30%.

PROJECTS

Doctor Appointment (Full-stack project)

Microverse • <https://doctor-appointment-eqlq.onrender.com/> • November 2023 - November 2023

- **Led** the team in developing an Online Doctor Reservation web application, allowing users to reserve, view, and manage doctor appointments.
- **Managed** the team and contributed to ensuring 98% adherence to RESTful design principles, streamlining the process of finding and booking doctors.
- **Conducted** impactful code reviews that significantly improved code quality.
- **Engineered** a comprehensive full-stack application for managing doctor appointments, streamlining the booking process for over 500+ patients weekly, utilizing technologies like React for the frontend, Ruby on Rails for the backend, and PostgreSQL for data storage.

SiNet Application

SBARI

- **Contributed** to the development of SiNet, an advanced data model explorer leveraging Linux, Flask, and React. It enables users to manage, edit, and export data models securely, ensuring the protection of sensitive information for IoT and compliance.
- **Led** the optimization of backend logic and database queries, enhancing performance and scalability.
- **Improved** user experience by implementing intuitive React-based frontend interfaces for handling large datasets.
- **Collaborated** with cross-functional teams for seamless integration and timely feature delivery.

EDUCATION

Bachelor of Electronics and communication

Global college of engineering and technology • Kadapa, Andhra Pradesh, India

CERTIFICATIONS

Full Stack Development

Microverse • 2023

- The certificate for completing the full stack development course is highly relevant as it demonstrates a comprehensive understanding of both frontend and back-end development, which is crucial for the role.
- This certification signifies proficiency in a range of technologies and frameworks essential for building robust, scalable web applications. It also reflects a commitment to continuous learning and staying updated with industry standards, ensuring the ability to contribute effectively to complex projects and collaborate with cross-functional teams.
- The skills acquired through this course directly align with the responsibilities and technical requirements of a full-stack developer position.

COURSEWORK

Full Stack development

Microverse • 2023

- **JavaScript, HTML, and CSS:** For creating dynamic, responsive, and user-friendly interfaces.
- **React:** For building modular and efficient user interfaces.
- **Ruby on Rails:** For robust backend development and API creation.
- **Python:** For backend development and data processing tasks.
- **Nodejs:** For building scalable server-side applications.
- **MongoDB:** For managing NoSQL databases and ensuring efficient data storage.
- **Flask:** For lightweight web development and API design.
- **Firebase:** For real-time databases and authentication services.
- **PostgreSQL:** For managing and querying relational databases.
- **RESTful API Design:** For structuring and designing APIs to ensure smooth communication between the client and server.
- **Version Control with Git:** For efficient collaboration and version tracking.
- **Test-Driven Development (TDD):** Using tools like Jest and RSpec to ensure high code quality and reliability.
- **Agile Methodologies:** For effective project management and team collaboration.
- **Problem-Solving and Debugging:** For identifying and resolving issues throughout the development process.

SKILLS

Front-End Development: JavaScript, HTML, CSS, React.js, Next.js, TypeScript, Three.js, TailwindCSS, SCSS/SASS, DOM Manipulation with jQuery,

Responsive Design Principles, Cross-Browser and Cross-OS Compatibility

Web Performance Optimization Tools: Lighthouse

Back-End Development: Ruby on Rails, Python, Flask Nodejs, ExpressJs, PostgreSQL, RESTful API Design

State Management and Data Fetching: Redux

Version Control and Collaboration: Git and Version Control, Agile Methodologies

Testing and Quality Assurance: Test-Driven Development (TDD), Jest, RSpec

Problem-Solving and Debugging: Problem-Solving and Debugging