

NIRAV WAGHELA

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Motivated software engineer with 5+ years of experience developing and enhancing real-world projects

Experience

Software Engineer - Wodify - Philadelphia, USA

Dec 2023 - Present

- Enhanced **Customer Retention platform** by integrating **React components and a Node.js backend with expressJS**, serving 5000+ gyms, improving operational efficiency
- Led the **Migration of legacy code** to modern frameworks, reducing technical debt through systematic refactoring, improved documentation, automated testing, and enhanced CI/CD processes, resulting in a **40% faster development cycle**
- Collaborated with UX/UI designers to revamp the user interface, boosting **user satisfaction scores by 22%**
- Implemented a **Kanban board with React** in legacy app for lead tracking, Formulated event handling for seamless integration of react with OutSystems, resulting in **20% increase in lead conversion rates**
- Developed a **Profile Lite Quick View component**, improving user experience with quick access to attendance, memberships, and profile details, reducing time spent on accessing profiles by **30%**, alongside refactoring stylesheets from **CSS to SASS**

Web Developer – Shimadzu Institute for Research Technologies - Texas, USA

Sept 2021 - Dec 2023

- Developed a **RESTful API** using **NodeJs and ExpressJs** to handle reservation requests, incorporating modern web application frameworks **React, Typescript, bootstrap and MySQL**
- Employed asynchronous programming techniques and callbacks to handle I/O operations, avoiding blocking of the event loop.
- Created component-based **React dashboards** for real-time insights into downtime trends and decision-making, while also utilizing **Jest, Enzyme, and Karma** for unit and integration testing, enhancing code reliability and **test coverage to 85%**
- Implemented **Authentication and Authorization** (OAuth, JWT) for secure access controls and permission management

Full Stack Developer - Freecharge Axis bank - Mumbai, India

July 2020 - July 2021

- Facilitated the account opening process for over **200,000** users at **Axis Bank** by implementing a system built with **React, TypeScript, NodeJs and MongoDB**, significantly improving user onboarding experience and reducing processing time by **50%**.
- Implemented **server-side rendering** for improved SEO and page load performance, optimizing images for diverse screen sizes, increasing site traffic by **15%**
- Collaborated with back-end developers to design **RESTful API endpoints** that deliver content efficiently to responsive front-end interfaces.
- Enhanced user experience by optimizing **Webpack output bundles** with code splitting, tree shaking, and minification, resulting in a **10% reduction in page load times**
- Implemented **AES-256 secure hashing** for API data encryption and integrated microservices into the backend architecture

Software Engineer - Accionlabs - Mumbai, India

July 2018 - Jan 2020

- Migrated jQuery-based credit reporting app to **React with reactive forms and GraphQL**, improving data validation and integrity
- Spearheaded **TDD (Test Driven Development) adoption**, reducing defect resolution time by **30%**
- Incorporated **API gateway using Node and ExpressJS**, playing a crucial role in Server-Side Rendering, and template compilation for old browser like IE8, improving compatibility and performance

Skills

Languages: JavaScript, TypeScript, Java, Python, SQL, C#, C, C++

Web Technologies: RESTful Web Services, OAuth2, Node.js, React.js, Redux, Angular, Bootstrap

Technologies: Spring Boot, Express.js, Docker, Kubernetes, Kafka, JSON

Database: MySQL, MongoDB, Oracle

Tools: OutSystems, Git, Jira, Postman, GCP, AWS, Jest, Jasmine, Karma

Academic Projects

Carma Ridesharing Mobile App [2023]

- Developed a decentralized ridesharing app, connecting riders and drivers directly, eliminating third-party intermediaries.
- Utilized a three-tier architecture (React Native, NodeJS, IPFS/Pinata SDK) to ensure secure and transparent ride transactions with features like geolocation, booking/payment and real-time ride tracking

Server Synchronization in Distributed System [2022]

- Developed a **Java-based** tool for content synchronization in distributed systems using socket programming and multithreading.
- Implemented a robust solution to synchronize directory contents across multiple networked systems, leveraging Java's **socket communication**, multithreading, and advanced file I/O handling for seamless data transfer and synchronization.

Education

Master of Science in Computer Science, University of Texas at Arlington, (GPA – 3.7/4.0)

Aug 2021 – May 2023

Bachelor of Engineering in Information Technology, University of Mumbai (GPA – 3.5/4.0).

Jul 2014 – June 2018