Santosh Nandiyawar

Fullstack Developer | MongoDB, Redux, React, Node.js, Azure

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Profile

Recent MSc Computer Science graduate with 2.5+ years of experience in developing and maintaining scalable web applications. Proficient in **JavaScript, Angular.js, Next.js, and Node.js**, with expertise in backend technologies like **Express.js, MongoDB, and PostgreSQL**. Strong foundation in **software development methodologies, object-oriented programming (OOP), and RESTful APIs**. Hands-on experience with **CI/CD workflows, Docker, and cloud services (AWS, Azure)**. Passionate about writing clean, testable, and well-documented code, collaborating in Agile teams, and continuously learning new technologies. Enthusiastic about solving complex problems and contributing to innovative SaaS products.

Education

Master of Science (M.Sc.), Computer Science - Swansea University	*2023-2024*
Bachelor of Engineering (B.E), Mechanical Engineering - SITS	*2016-2020*

Skills

- **Frontend:** React.js, JavaScript, TailwindCSS, Angular, HTML5, CSS3

- **Backend & APIs:** .NET (C), Node.js, Express.js, RESTful APIs, Python, Docker

- **Cloud Services:** AWS, Azure, Docker, Linux, Github

- **Databases:** SQL (PostgreSQL, MySQL), NoSQL (MongoDB), Microsoft SQL Server

- **DevOps:** AWS, Kubernetes, Azure, Docker , Github

- **Software Development:** Agile (Scrum), Test-Driven Development (TDD), Unit Testing (Jest, Cypress)

Junior Software Engineer, ProArch, Pune, India   *03/2022 – 07/2023*

- **Challenge:** Enterprise clients demanded scalable, high-performance web applications with secure data handling, yet the existing system faced issues such as slow database queries and inadequate authentication mechanisms.

- **Action:**

  - Developed and maintained web applications by leveraging React for front-end and Node.js for back-end services, building robust APIs for seamless service communication. To tackle performance issues, designed and implemented efficient SQL and NoSQL database architectures, refactored complex queries, and optimized indexing strategies.

  - Implemented secure authentication systems using OAuth and JWT, enforcing role-based access controls. Additionally, improved software quality by adhering to Test-Driven Development (TDD) practices, performing code reviews, and integrating automation tools and CI/CD pipelines.

  - Actively collaborated in Agile teams—participating in sprint planning, stand-ups, and retrospectives—to ensure that business requirements translated into scalable technical solutions.

- **Result:** These initiatives led to a 40% reduction in query execution time, enhanced scalability and maintainability of the applications, and significantly strengthened security measures to protect sensitive data.

Key Projects & Contributions

Enterprise Web Platform (ProArch)

- Built and maintained **React using typescript based web applications** for enterprise clients.

- Optimized **SQL databases**, improving query performance by **40%**.

- Developed **secure authentication systems** using OAuth and JWT.

Real Estate Management System (Personal Project)

- Developed a **full-stack web application** using **MongoDB, Express, React, and Node**.

- Designed an **intelligent property search and filtering system** to enhance the user experience.

- Implemented **secure API endpoints** and optimized database queries.

Projects

Real Estate Management Application   *06/2024 – 09/2024*

- Developed a full-stack real estate application that allows users to search, filter, and prioritize properties based on criteria such as bedrooms, bathrooms, price, and location.

- Created a dynamic property prioritization system that ranks listings according to user preferences and incorporates an intelligent fallback mechanism when no exact matches are found.

- Integrated Google Maps API to calculate and display the distance between a user's current location and potential properties, improving decision-making.

- Designed a custom filtering system with a sidebar UI to refine property searches, enhancing the user experience.

- Built an image upload feature using Multer (memory storage) to store profile images as buffers in MongoDB, optimizing performance and scalability.

- Applied modern UI/UX principles to create an intuitive, user-friendly design for seamless navigation.

- Tech Stack: React, Node.js (Express), MongoDB (Mongoose), Google Maps API, Multer, RESTful APIs, MVC Architecture.

Restaurant Management Java Application   *02/2024 – 04/2024*

- Built a desktop application using JavaFX to process orders and manage staff scheduling for restaurant operations.

- Developed a multithreaded order processing system to handle concurrent customer requests efficiently.

- Designed a custom data persistence layer using MySQL for seamless integration, ensuring reliable data storage and retrieval.

- Tech Stack: Java, JavaFX, MySQL, Multithreading, MVC architecture.

Certifications & Achievements

Microsoft Certified: Azure Fundamentals by Microsoft (Certification Number: I290-2995)   *2022*