

Sneh Shah

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Experience

Sapphire Software Solutions

August 2022 – September 2024

Software Engineer Trainee

- Contributed to the timetable generation system enhancement project by implementing modular solutions and introducing new technological improvements to existing workflows.
- Introduced and integrated new technical solutions, including PDF generation packages, to streamline document handling processes.
- Collaborated on a specialized module within a small cross-functional team of 3 members, working directly with frontend engineering to ensure seamless integration and functionality.
- Maintained consistent communication with team leads, providing regular progress updates and feedback to improve development processes and project outcomes.
- Key Contributions:
 - * Designed and implemented database schemas for specific modules
 - * Researched and integrated new technical solutions to enhance existing functionalities
 - * Participated in code reviews to maintain quality standards
 - * Assisted in implementing automated testing procedures

Projects

Timetable Generation | Python, Flask, MS SQL Server, PostgreSQL

- Led the migration and enhancement of the timetable generation system, applying various algorithms and increasing the generation rate by 50%. Developed using Python Flask and integrated with MS SQL Server and PostgreSQL databases. Implemented customization features to meet client requirements.
- Designed and implemented a scalable architecture for the timetable generation system, ensuring efficient performance and flexibility for future enhancements.
- Roles & Responsibilities:
 - * Architected the database schema and implemented data migration strategies
 - * Developed core algorithms for conflict resolution and optimization
 - * Conducted code reviews and maintained coding standards
 - * Implemented automated testing procedures with 85% coverage

CRM Development | .NET 6, Razor Pages, MS SQL Server 2014

- Played a significant role in the development of a large CRM system built on .NET 6, handling receipts, invoices, customer notifications, and administrative tasks. Responsible for frontend development using Razor Pages, backend implementation, and integration with MS SQL Server 2014.
- Roles & Responsibilities:
 - * Developed and maintained core CRM functionalities using .NET 6
 - * Designed and implemented responsive UI components using Razor Pages
 - * Created stored procedures and optimized database queries
 - * Implemented secure authentication and authorization systems
 - * Integrated third-party APIs for payment processing and notifications

Hiking Alert System | React.js, Firebase, Node.js

- Designed and developed a comprehensive alert system for hikers and trekkers using React.js for the frontend, Firebase for real-time data management, and Node.js for server-side logic and scheduling tasks. The system automatically sends emergency notifications to designated contacts if users do not return by their specified time.
- Implemented cron jobs in Node.js to monitor user return times, ensuring timely alerts and enhancing safety for outdoor enthusiasts.
- Roles & Responsibilities:
 - * Spearheaded the entire development lifecycle from concept to deployment
 - * Implemented real-time location tracking using Firebase
 - * Developed responsive React components and custom hooks
 - * Created RESTful APIs using Node.js and Express

Technical Skills

Languages: Python, C#, JavaScript, SQL, HTML/CSS

Technologies: React.js, .NET 6, Flask, Node.js, Firebase, MS SQL Server, PostgreSQL, Razor Pages, Express.js

Tools & Concepts: RESTful APIs, Microservices Architecture, Version Control (Git), Database Design, Agile Methodology, Test-Driven Development

Education

Silver Oak University

Bachelor of Science in Information Technology (CGPA: 9.54 / 10.00)

May 2024

Ahmedabad, Gujarat