

SATABDI SATYAPRAGNYA SWAIN

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SUMMARY

As a **Junior Software Engineer** with **over 1 year of hands-on experience in full-stack web development**, specialized in developing responsive, user-friendly web applications using **Angular, TypeScript, HTML, and CSS** for frontend development. I have experience in building robust APIs using **C# and ASP.NET Web API**, with strong database skills in **SQL Server**. Known for strong problem-solving abilities, efficient debugging, and the ability to analyze complex technical challenges to deliver clean, scalable solutions. A proactive team player with a passion for continuous learning and contributing to impactful, real-world software projects.

EXPERIENCE

Perceptron Software Labs Pvt Ltd

Junior Software Engineer

Panjim, Goa

June 2024 - present

- Developed and maintained 6+ full-stack web applications using **Angular, TypeScript, HTML, and CSS**, implementing responsive UI designs that improved user experience and usability across devices.
- Integrated **C# and ASP.NET Web APIs** for robust backend services, enabling secure and scalable communication between client and server systems.
- Designed and optimized **SQL Server** database schemas, including stored procedures and indexing strategies, reducing query response time by 30% in high-load scenarios.
- Led the integration of **RESTful APIs** in Angular applications, enhancing data synchronization and reducing frontend-backend latency by 25%.
- Developed custom role-based **authentication and authorization** logic using **Angular Guards and Product key validation**, improving application security and user access control.
- Implemented **modular architecture** and reusable Angular components, improving development speed and reducing code duplication by 40%.
- Applied **RxJS and Angular Services** for **real-time data handling** and improved component communication in dynamic, data-driven dashboards.
- Collaborated with cross-functional teams to **debug and resolve complex issues**, achieving a 95% reduction in production-level bugs through thorough problem analysis and efficient code fixes.
- Participated in **Agile** development cycles, contributing to sprint planning, daily standups, and successful delivery of enterprise-grade modules under tight deadlines.

SKILLS

- **Programming Languages:** - Type-Script, JavaScript, C#, Java, Python, SQL
- **Frontend Technologies:** - Angular, Angular Material, HTML5, CSS3, SCSS, Bootstrap, Responsive Web Design
- **Backend & API Development:** - ASP.NET Web API, .NET Core, .NET Framework, RESTful API Services, LINQ, Entity Framework
- **Database Technologies:** - SQL Server, Stored Procedures, Triggers, Schema Design, Query Optimization
- **Protocols & Integrations:** - MQTT, RFID
- **Development Tools:** - Visual Studio, Visual Studio Code, SQL Server Management Studio, Postman, Httpie, GitHub
- **Methodologies:** - Agile Methodologies, Continuous Integration & Deployment (CI/CD)
- **Other Skills:** - Debugging & Troubleshooting, API Integration, Cross-Platform Data Sync, Performance Optimization

PROJECTS

Warehouse Management System (WMS)

Hosur, Tamil

Nadu

Client: **GRB Dairy Foods Pvt Ltd**

Technologies: Angular, TypeScript, Bootstrap, HTML5, CSS3, C#, SQL Server, ASP.NET Web API, MQTT, Visual Studio, Visual Studio Code

- **Designed and developed dynamic, responsive UIs and interactive dashboards**, along with **custom reports**, using Angular, TypeScript, Bootstrap, HTML5, and CSS3 to enhance user experience and data visualization.
- Built and integrated RESTful APIs using C# and ASP.NET Web API, ensuring efficient communication between frontend and backend systems.
- Created and optimized SQL Server database schemas and **stored procedures** to improve performance and support complex reporting and data operations.

Ladle Tracking System (LTS)

Bokaro, Jharkhand

Client: **Vedanta ESL Steel Plant**

Technologies: Angular, TypeScript, Bootstrap, HTML5, CSS3, C#, SQL Server, ASP.NET Web API, Visual Studio, Visual Studio Code

- Developed a secure **web application** and **dynamic dashboards** using Angular, TypeScript, Bootstrap, HTML5, and CSS3, with features like **authentication, authorization, session timeout, and real-time ladle movement tracking** across furnace casting, production, and maintenance stages.
- Created **analytics dashboards** and **interactive reports**, providing insightful visualizations and enabling data-driven decision-making for operational efficiency.
- Engineered C# ASP.NET Web APIs to **handle business logic** and **real-time data exchange**, ensuring robust backend functionality and seamless integration with the frontend.
- Structured and tuned the SQL Server database using efficient **stored procedures**, enabling high-performance queries and reliable tracking of real-time ladle movement data.

Ore Tracking System (OTS)

Amona, Goa

Client: **Vedanta Limited (Sesa Goa), Value Addition Business (VAB)**

Technologies: Angular, TypeScript, Bootstrap, HTML5, CSS3, C#, SQL Server, ASP.NET Web API, Visual Studio, Visual Studio Code

- Developed a **secure, dynamic web application with analytical dashboards** and **interactive reports** using Angular, TypeScript, Bootstrap, HTML5, and CSS3, incorporating features like authentication, authorization, and session timeout.
- Implemented C# ASP.NET Web APIs with SQL Server and stored procedures to ensure reliable data operations and deliver interactive analytical reports.

EDUCATION

Master of Computer Application (MCA)

INSTITUTE OF PROFESSIONAL STUDIES & RESEARCH (IPSAR)

Cuttack, Odisha

Bachelor of Science (BSc)

ADIKABI SARALA DAS COLLEGE, TIRTOL

Jagatsinghapur, Odisha

LANGUAGE

- **Odia** : - Native
- **English** : - Professional
- **Hindi** : - Conversational