

# Tapan Ray

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## EXPERIENCE

### Software Engineer

LTI Mindtree

February 2025 - Present, banglore

- I work as a Software Developer with a primary focus on backend engineering using the .NET ecosystem. My responsibilities span the full software development lifecycle, from requirement analysis and system design to implementation, deployment, and ongoing production support. I actively contribute to building scalable, secure, and maintainable enterprise applications that support real-world business operations.**Backend Engineering & API Development**A major part of my role involves developing RESTful APIs using ASP.NET Core. I follow clean architecture principles to ensure proper separation of concerns between controllers, business logic, and data access layers. This approach makes the system easier to maintain, test, and extend as requirements evolve. I design APIs with consistency, security, and performance in mind, ensuring predictable responses and robust error handling.**Data Access & Database Engineering**I work extensively with Microsoft SQL Server and ADO.NET. My responsibilities include designing relational schemas, defining constraints and relationships, writing optimized queries, stored procedures, views, and triggers. For performance-critical scenarios, I use ADO.NET to gain fine-grained control over database connections, transactions, and execution flow.**Performance, Reliability & Scalability**Performance tuning and system stability are core aspects of my role. I analyze slow queries, optimize indexes, troubleshoot production issues, and perform root-cause analysis to deliver long-term fixes. My focus is on building systems that perform reliably under load and scale with increasing demand.

### R&D Intern

NOKIA Network and Solution

August 2023 - April 2024, Bangalore, IND

- Frontend Development — React & JavaScriptDeveloped reusable and scalable UI components using React.jsImplemented responsive layouts, routing, state management, and API integrationOptimized rendering, bundle size, and overall UI performanceEnsured clean, maintainable code following industry best practices
- Performance, Quality & ToolingImproved code quality through SonarQube analysis and continuous refactoringIdentified and resolved performance bottlenecks in UI workflowsUsed debugging and profiling tools to enhance speed and reliabilityContributed to internal UI improvements, accessibility, and modern design practices
- Deployment & DevOps — Docker & KubernetesContainerized frontend applications using DockerCollaborated with teams to deploy and manage applications on KubernetesWorked with CI/CD pipelines for smooth integration and deploymentEnsured scalable and reliable delivery of frontend builds in production environments

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## EDUCATION

### Master of Computer Application

Kalinga Institute of Industrial Technology • Bhubaneswar, Odisha • 2024 • 8.36

### BSC Computer Science

Khalikote Autonomous College • Bermhpur, Odisha • 2022 • 7.70

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## SKILLS

C++, JavaScript, C#, ASP.NET Core, ADO.NET, React.js, SQL Server, Azure, RESTful APIs, Entity Framework Core, Database Design, Performance Optimization, CI/CD Pipelines, SonarQube, Git, GitHub, Microservices Architecture, Containerization, UI Development, System Debugging, Software Optimization, Azure App Services, Azure SQL Database

