

# KAUSTAB SAMANTA

Software Developer

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## CAREER SUMMARY:

Software Developer with over 2.5 years of experience, currently working at Infosys. Specialized in backend development, API performance optimization, and feature development within microservices architecture. Proficient in C#, .NET Core, Angular, and SQL Server. Experienced in modernizing legacy systems, leveraging Elasticsearch for optimized data retrieval, and implementing event-driven architecture using RabbitMQ. Adept at working in Agile and CI/CD environments, with a focus on delivering high-quality, scalable, and reliable solutions. Looking to contribute to a dynamic team and help streamline complex systems.

## WORK EXPERIENCE:

### Infosys Limited

Senior Systems Associate | March, 2022 - Present

Kolkata, India

- Developed and optimized multiple RESTful APIs, improving system performance by 80% through parallel and asynchronous programming techniques.
- Modernized a legacy Transportation Management System (TMS) using microservices and micro frontend architecture, significantly enhancing operational efficiency for a leading North American logistics company.
- Leveraged Elasticsearch for faster and more efficient data retrieval, integrated Couchbase for caching, and used RabbitMQ for event-driven processing.
- Achieved over 95% unit test coverage using xUnit, ensuring code reliability and reducing bugs in production.
- Designed and optimized database interactions using MSSQL and Dapper ORM, creating efficient custom stored procedures.
- Improved operational efficiency by collaborating with cross-functional teams, leading to enhanced ETA visibility for containers and better job flexibility for truck drivers.
- Actively involved in the continuous integration/continuous delivery (CI/CD) process, managing TeamCity and Octopus for automated and reliable deployments.

## PROJECTS:

### Shortify.NET - URL Shortening Service (In Progress)

- Developed a monolithic backend for a URL-shortening service with advanced features such as short URL management, caching, and role-based access control (RBAC).
- Implemented secure user authentication using JWT with refresh tokens for persistent sessions.
- Planned features include URL hit tracking, advanced monitoring, and expanded admin controls.
- Applied Domain-Driven Design (DDD) and Clean Architecture principles, with CI/CD pipelines automated via GitHub Actions for Docker image deployment to Render.
- Utilized PostgreSQL hosted on Supabase, with automated database migration during deployment.

Technologies: .NET 8, PostgreSQL, Redis, EF Core 8, MediatR, Quartz, Docker, Qodana, GitHub Actions

Swagger Documentation with testable APIs - <https://shortify-net.onrender.com/swagger/index.html#/>

GitHub Codebase - <https://github.com/ScriptSage001/Shortify.NET>

## SKILLS:

- Programming Languages:** C#, SQL, JavaScript
- Frameworks & Technologies:** .NET Core, ASP.NET Core, EF Core, Dapper, MSSQL, PostgreSQL, Elasticsearch, MediatR, JWT, RabbitMQ, Angular
- Tools:** Visual Studio, VS Code, Rider, Postman, Swagger, Git, GitHub, Kibana, TeamCity, Octopus, Docker
- Cloud Platforms:** Azure, Supabase, Firebase, Render
- Methodologies:** Agile, Scrum, Domain-Driven Design (DDD), Clean Architecture, CI/CD
- Other:** Microservices, Micro Frontends, Couchbase, Redis

## CERTIFICATIONS:

- Infosys Certified .NET Microservices Developer - 2022
- Infosys Certified CSharp Programmer - 2022
- AI-first Software Engineering - 2024

## AWARDS:

- Infosys Insta Awards** – 2024  
Recognized for exceptional contributions to improving system performance and addressing technical debt.
- Infosys Rookie Rockstar** – 2023  
Awarded for outstanding performance during the first year at Infosys.

## EDUCATION:

### University of Calcutta

Bachelor of Science | July 2016 - Nov 2020 | Kolkata, India