

# SURAJ BARTOULA

.NET Developer | <https://surajbartoula.github.io/portfolio/> | 📍 Abu Dhabi, UAE

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## SUMMARY

Backend developer with experience building scalable, high-performance APIs and services using .NET and Fastify. Skilled in designing RESTful endpoints, integrating SQL & NoSQL databases and implementing middleware, security and performance optimizations. Proficient in optimizing server-side logic for performance and security, with experience in Docker and cloud deployment. Strong foundation in software engineering from 42 Abu Dhabi, with hands-on project-based training and collaborative team development.

## Education

42 Abu Dhabi - Software Engineering Program (2022-2025)

- Intensive project-based training in algorithms, data structures, operating systems, networking and full-stack web development.
- Peer-to-peer learning, code reviews and collaborative team projects.

Kathmandu University (2008-2010)

- Intermediate of Science (Computer Science Major)

## Projects

Personalized Gifts & Custom Photo Printing Platform (ASP.NET Core, React, PostgreSQL, Docker)

- Designed and developed a web platform to manage events. Photo and payment workflows for both customers and clients.
- Built backend services with .NET (ASP.NET Core) and an interactive frontend with React + Tailwind CSS.
- Integrated secure payment processing and developed user-friendly client dashboards.

Task Management System (ASP.NET Core, SQL Server)

- Built a full-stack task management web app with user authentication, role-based access and CRUD operations for tasks/projects.
- Backend developed in ASP.NET Core Web API with Entity Framework Core for database handling.
- Integrated SQL Server for persistent storage and JWT authentication for security.

E-Commerce Backend API (ASP.NET Core, PostgreSQL)

- Developed a scalable RESTful API supporting product catalog, shopping cart, orders and payments.
- Implemented authentication & authorization using Identity Framework.
- Used PostgreSQL with EF Core and Swagger for API documentation.

Real-Time Chat Application (.NET + SignalR)

- Built a real-time chat app using ASP.NET Core SignalR. Implemented group chat, private message and live notification and deployed with Docker.

## KEY ACHIEVEMENTS

- ◆ Boosted database performance and scalability by leveraging Entity Framework (EF) Core with optimized queries, reducing execution time by up to 40%
- ◆ Drove team collaboration and delivery efficiency through Agile methodology, GitHub/GitLab version control and CI/CD pipelines ensuring faster and reliable releases.
- ◆ Strengthened application security by implementing OAuth 2.0 with role-based access control (RBAC), significantly reducing vulnerabilities and aligning with industry best practices.
- ◆ Developed reusable .NET libraries for authentication and error handling, enhancing code maintainability and cutting duplicate effort across multiple projects.

## KEY SKILLS

Programming & Frameworks: .NET (ASP.NET Core, ASP.NET MVC), C#, JavaScript, TypeScript, React, Fastify

Web Technologies: HTML5, CSS3, Tailwind CSS

Databases: PostgreSQL, SQLite, MongoDB (NoSQL)

Tools & Platforms: Docker, Git, GitHub, GitLab

Concepts: RESTful APIs, Microservices, Authentication (JWT, OAuth, 2FA), Agile Development

## CERTIFICATIONS

Git & GitHub Certification (Coursera)

Docker Essentials (Coursera)

Agile Project Management (Atlassian)

Postman API Fundamentals Student Expert