

Aaryan Jha

Mid-Level Backend Software Engineer | C# | .NET | ASP.NET Core | Microservices

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PROFESSIONAL SUMMARY

Mid-Level Backend Software Engineer with 2+ years of experience building secure enterprise applications using C#, .NET, ASP.NET Core, REST APIs, gRPC, microservices, and relational databases. Hands-on experience with event-driven systems using Kafka and RabbitMQ, Redis caching, Keycloak-based authentication and authorization, API gateways, Docker, and automated testing across fintech, financial, and multi-tenant platforms.

PROFESSIONAL EXPERIENCE

Mid Level Software Engineer

Jul 2026 - Present

Ureka Systems Pvt. Ltd. | Kathmandu, Nepal | On-site

- Contribute to an enterprise fintech platform built on .NET and distributed microservices architecture.
- Develop event-driven backend services using Kafka and Rebus-based messaging over RabbitMQ, with Redis for distributed caching and performance optimization.
- Implement secure authentication and authorization across services using Keycloak, JWT, and role-based access control.
- Build gRPC-based service-to-service communication between microservices and manage API routing through YARP API Gateway.
- Implement resilience patterns for service-to-service communication using Polly.
- Develop reusable shared libraries and common infrastructure components used across multiple microservices.
- Use SonarQube for static code analysis, resolving code smells and maintaining code quality across .NET microservices.

Software Engineer

Jun 2024 - Jul 2026

Vertex Special Technology | Lalitpur, Nepal | On-site

- Built an OCR-driven financial document processing platform integrating external APIs, AWS S3, SignalR, webhooks, and version-controlled document workflows.
- Developed financial reporting modules including General Ledger, Trial Balance, Profit & Loss, and Balance Sheet with export support for PDF, Excel, CSV, and JSON.
- Designed and implemented multi-tenant architecture and enterprise security, including MFA/2FA, trusted-device recognition, device fingerprinting, and secure API authentication.
- Engineered a dynamic RBAC system with module/action-level permissions securing 325+ APIs across enterprise applications.
- Developed core HRMS modules including attendance, leave management, recruitment, and employee lifecycle management, integrating biometric devices for real-time tracking.
- Built secure API Gateway solutions and integration frameworks using API keys, Argon2 hashing, and idempotent webhook processing.
- Restructured API architecture, containerized services with Docker, and implemented automated testing using xUnit, Moq, and Shouldly.
- Delivered backend features from design through deployment, produced technical documentation, and collaborated with teams across the US, Nepal, and Pakistan.

TECHNICAL SKILLS

Backend: C#, .NET, ASP.NET Core, ASP.NET Core Web API, Entity Framework Core, LINQ, SignalR

Architecture & APIs: Microservices, Clean Architecture, Event-Driven Architecture, REST APIs, gRPC, YARP API Gateway, Polly

Data & Messaging: SQL Server, PostgreSQL, Redis, Kafka, RabbitMQ

Security: Keycloak, OAuth 2.0, OpenID Connect, JWT, RBAC, MFA/2FA, Device Fingerprinting, Argon2

Testing, DevOps & Cloud: xUnit, Moq, Shouldly, SonarQube, Docker, Git, GitHub, Bitbucket, IIS, AWS S3

Additional Technologies: EPPlus, Flutter, BLoC, Stripe Integration, IoT/Biometric Systems, Jira, Trello

ADDITIONAL EXPERIENCE

Tutor & Final Year Project Supervisor

Aug 2025 - Aug 2026

Islington College | Kathmandu, Nepal | On-site

- Delivered lectures and practical training in .NET Core Web API, MAUI, and Blazor.
- Mentored and evaluated final-year projects, providing technical guidance, conducting code reviews, and assessing project quality through documentation reviews, vivas, and defense sessions.

EDUCATION

BSc (Hons) Computing | Itahari International College (London Metropolitan University), Nepal | 2022 - 2025

Graduated with 74% (Straight A).

Triple A Scholarship for excellence in academics, attendance, and discipline throughout all academic years.

CERTIFICATION

Design Patterns - University of Alberta (Coursera)

coursera.org/account/accomplishments/verify/SVKZVN55Y84D

Microsoft Back-End Developer Professional Certificate - Microsoft 2026, (Coursera)

8-course Professional Certificate covering C#, .NET, databases, security, algorithms, scalability, deployment and DevOps.

12 ECTS credit recommendation · Credential ID: GPVR8M8ZHUPE

Coursera: <https://www.coursera.org/account/accomplishments/professional-cert/GPVR8M8ZHUPE>

Credly: <https://www.credly.com/badges/ee7aaac8-b541-4f59-a1be-8039258db8df>

SELECTED AWARDS & HONORS

- Selected for International Exposure Trip to Thailand (2024).
- 3rd Place, 30-Second Pitch Challenge, DesignThinkers Academy, Thailand.
- Mentor at Hack4SafeFood Hackathon - guided the winning team (Team Syntax Error).

LANGUAGES

English (Fluent) | Nepali (Native) | Hindi (Conversational)