

Piyash Khanal

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Summary Versatile Software Engineer with expertise in building scalable and distributed systems using modern architectural practices. Experienced in designing microservices, real-time communication systems, and high-performance APIs using C#.NET, RabbitMQ, and PostgreSQL. Strong foundation in Clean Architecture and CQRS, with a focus on performance optimization, system reliability, and maintainability.

Skills

Languages C#.NET, Python, Bash

Cloud AWS

API REST, gRPC

Databases PostgreSQL, Redis

Message Broker RabbitMQ

OS Debian, Ubuntu, Windows, macOS

Methodologies SCRUM

DevOps Docker, Jenkins

Experience

Innovate Tech

Software Engineer

May 2023 – Present

October 2024 – Present

- Designed and developed a scalable **Educational Platform** supporting real-time learning and content delivery.
- Architected microservices using **C#.NET**, **RabbitMQ**, and **PostgreSQL** ensuring fault tolerance and scalability.
- Implemented the **Saga pattern** to maintain data consistency across distributed services.
- Built real-time communication systems using **WebSockets** for live interactions.
- Applied **Clean Architecture** and **CQRS** to improve maintainability and scalability.
- Optimized system performance and reduced latency under high load conditions.

Associate Software Engineer

August 2023 – October 2024

- Developed core modules including user management, subscriptions, and content systems.
- Improved API and database performance by up to **70%**.
- Built reusable libraries and published a custom **NuGet package**.
- Performed load testing using **k6**.

Trainee

May 2023 – July 2023

- Fixed bugs and improved system stability.
- Optimized PostgreSQL queries and EF Core performance.
- Worked with **ABP framework** for modular development.

Shades and Shadows Media Technologies

April 2022 – May 2023

Mobile and Front-end Developer

- Developed two production-ready mobile applications using Flutter.
- Built static websites using React.
- Integrated frontend with backend systems.

Education

London Metropolitan University — Islington College

2020 – 2023

BSc (Hons) Computing

Grade: 76.5%

- **AAA Scholarship Award 2023** — Issued by Islington College, Jul 2025
- **AAA Scholarship Award 2022** — Issued by Islington College, Dec 2022

Projects

Blood Donation Application (LifeKit) — Final Year Project

- Developed a full-stack platform connecting donors and recipients using real-time data.
- Backend built using **C#.NET** with REST APIs for authentication and donor matching.
- Cross-platform frontend using **Flutter** (mobile + web).
- Implemented real-time notifications for urgent blood requests.
- Designed scalable PostgreSQL database.

Event Management Application

- Built system to track event participation and resource distribution.
- Implemented QR-based entry validation.
- Enabled real-time tracking and reporting.