Utsab Shrestha

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Summary

Senior Software Engineer (Lead Developer) & MS in Computer Science Candidate with 6+ years of experience architecting enterprise-grade US healthcare systems. Proven impact includes spearheading a major Q1 2025 product release for 3 major clients and improving system performance by 40% through .NET modernization. Currently leveraging advanced research at the University of South Dakota to contribute technical leadership and scalable solutions during a Summer 2026 Software Engineering Internship.

Education

University of South Dakota, Vermillion, SD — Aug 2025 - Dec 2026 (Expected)
M.S. in Computer Science

Jawaharlal Nehru Technological University — Sep 2014 - Apr 2018
B.Tech. in Computer Science & Engineering

Skills

Languages & Frameworks : C#, Java, Python, SQL, JavaScript, PHP, ASP.NET Core, Blazor, React
Databases & Cloud Platforms: SQL Server, PostgreSQL, MongoDB, AWS
DevOps & Tools: Docker, Kubernetes, Git, Postman, Unit Testing (NUnit), Jira

Professional Experience

Cedar Gate Technologies, Kathmandu, Nepal
Engineering Manager (Lead Developer & Individual Contributor) — Jan 2023 - Aug 2025

- **Spearheaded** the four-year integration and release of a **Bundle Claims Pricing** system for US healthcare, successfully **onboarding 3 major clients** during the Q1 2025 launch and establishing a critical milestone for the company's transition to value-based care.

- **Engineered** an enterprise-grade distributed scheduling system using **Quartz.NET** to replace 20+ legacy SQL jobs, **improving performance by 20%** and reducing developer debugging time from **one full day to under one hour**.

- **Drove** a 30% reduction in system debugging time by implementing a real-time dashboard with **SignalR** and Quartz.NET clustering, ensuring **fault tolerance and load balancing** for critical background tasks.

- **Delivered 100%** of project components on schedule by **mentoring a team of 5** and coordinating daily with US stakeholders, ensuring smooth Q1 release.

Cedar Gate Technologies, Kathmandu, Nepal
Associate Engineering Manager (Lead Developer & Individual Contributor) — Jan 2022 - Jan 2023

- **Architected** a .NET 7-based pipeline with 32 new features for Bundle Claim Pricing, delivering a successful **Proof of Concept** by Q4 2023 and positioning the company to capture the growing value-based healthcare market.

- **Modernized** legacy ASP.NET Web Forms by migrating core features to **Blazor WebAssembly**, resulting in a **40% UI performance improvement** and significantly reduced latency through high-performant REST APIs.

- **Promoted 2 junior engineers** after providing consistent technical mentorship and oversight during the development of a standalone web application supporting the EZ-CAP ecosystem.

Cedar Gate Technologies, Kathmandu, Nepal
Software Engineer — Mar 2021 - Jan 2022

- **Optimized** complex SQL stored procedures to reduce Claim Screen loading times from **3+ minutes to 100 milliseconds**, drastically improving client user experience and reducing system downtime.

- **Launched** the high-priority **Multiple Procedure Payment Reduction (MPPR)** feature within a complex legacy architecture, meeting all stakeholder requirements and delivering the solution **ahead of the client deadline**.

Softwel Private Ltd, Kathmandu, Nepal
Software Engineer — May 2018 - Feb 2021

- **Led the migration** of a survey application API from PHP Codeigniter to **ASP.NET Core 3.1**, resulting in a **30% improvement in data processing speed** and enabling parallel processing of survey data.

- **Enhanced system security and latency** by replacing FTP-based file uploads with direct API calls and implementing **JWT token authentication** for standard mobile survey data synchronization.