

Utsab Shrestha

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[LinkedIn Link](#)

Education

University of South Dakota, Vermillion, South Dakota

Aug 2025 – Dec 2026

M.S. in Computer Science (Specialization: Artificial Intelligence)

Relevant Coursework: Data Structures, Machine Learning, AI, Computer Vision, Distributed System

Jawaharlal Nehru Technological University

Sept 2014 – April 2018

B.Tech. in Computer Science & Engineering

Skills

Languages & Frameworks C#, Java, JavaScript, SQL, Asp.Net Core, Asp.NET, Blazor, Node.js

Cloud Platforms: AWS, Microsoft Azure

DevOps & Tools: Docker, Kubernetes, Jenkins, Git, CI/CD, IntelliJ, Visual Studio, VS Code, JIRA, Postman

Databases: SQL Server, PostgreSQL, MySQL, SQLite

Professional Experience

Cedar Gate Technologies, Kathmandu

Engineering Manager

Jan 2023 – Aug 2025

- Led a 9-engineer team to architect and develop a web-based service for bundle claim payment, filtering claims, integrating with Bundle Engine via API calls, and applying complex pricing logic enhancing value-based care and claims accuracy.
- Directed advanced enhancements in claims payment module, including withholding payments, recouping funds, handling refunds, and reflecting changes in 835 EDI PLB segments, streamlining payment efficiency for high-volume transactions.
- Architected distributed scheduling system using Quartz.Net clustering and SQL Server, integrating Serilog and SignalR for real-time monitoring—reducing debugging time by 30% and improving scheduling performance by 40%.
- Received 2025 Spotlight Award for impactful contributions to the Enterprise Claims Engine launch, recognizing leadership in bundled payment integration.
- Streamlined onshore-offshore collaboration across 15+ team members, ensuring effective requirement capture and technical solution design to minimize project delays by 25%.

Associate Engineering Manager

Jan 2022 – Jan 2023

- Initiated and led groundwork for bundle claim payment service using .NET and Quartz for scheduling, laying foundation for advanced payment models and enhancing platform functionality.
- Developed .NET 7 and ASP.NET Core web services, replacing legacy ASP.NET Web Forms and implementing APIs for cross-application communication—improving interoperability, data consistency, and system performance by 20%.
- Mentored 5 junior engineers on technical best practices and professional growth, fostering a collaborative environment that accelerated team delivery timelines.

Software Engineer

March 2021 – Jan 2022

- Developed enhancements for claims pricing in EZ-CAP, improving functionality and user experience.
- Optimized SQL queries, boosting claim processing performance by 30% and ensuring operational stability.
- Provided client support, delivering seamless application updates for enhanced user experience.

Softwel Private Ltd, kathmandu

Software Engineer

May 2018 – Feb 2021

- Developed a high-throughput API using ASP.NET Core .NET 3 for the NWASH project, handling 1000+ daily survey data API calls and persisting 1M+ records in PostgreSQL.
- Integrated OpenLayers.js with GeoServer to visualize surveyed data on interactive maps for the NWASH project, enhancing geospatial analysis.
- Engineered complex PostgreSQL queries for NWASH project client reports, optimizing WASH data analysis and accelerating delivery by 25%.

Academic Projects

Smart Traffic Light System

Sep 2017 – April 2018

- Engineered an IoT-based Smart Traffic Light System with RFID detection to prioritize VIP vehicles, ensuring seamless passage through traffic junctions. Developed a PHP web application for vehicle registration and integrated it with a centralized server to dynamically adjust traffic signals in real-time.