# Sanam Maharjan

Full Stack Developer · .NET & Next.js

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## SUMMARY

Full stack developer who owns production web platforms end to end: SQL Server, ASP.NET Core APIs, Next.js front ends, IIS servers and CI/CD. Sole developer of a certification platform for a Swedish client, working with them directly. Migrated 10+ clients into a new HR system and optimized a live security API. Uses AI-powered development to ship faster while reviewing every change.

## SKILLS

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|---|---|
| **Languages & frameworks** | .NET (C#, ASP.NET), JavaScript, TypeScript, React, Next.js, C/C++, Python |
| **Core essentials** | SQL Server (T-SQL, SSMS), Entity Framework Core, Stored procedures, HTML/CSS, Git & GitHub, Testing & QA |
| **Communication** | Direct client meetings, Requirement gathering, Ticket management, Mentoring interns, English, Nepali |
| **DevOps & servers** | GitHub Actions CI/CD, IIS, Azure Blob Storage, Environment configuration, SSDT |
| **AI-powered development** | Claude Code, AI code review, AI-assisted testing with test cases, Prompt and context engineering, AI-assisted security audits |

## EXPERIENCE

**Full Stack Developer**, Tulips Technologies Pvt. Ltd. — Nov 2024 – Present

- Sole developer of the SBSC certification platform for a Swedish client: promoted from sole back-end developer to full stack, now owning the databases, API, three web portals, testing and deployments.
- **Client-facing:** Meet the Swedish client directly, manage the ticket backlog, and trained an intern on the project.
- Delivered database design and the data migration of 10+ clients for TulipsHRM, and code optimization and role-based access for OneMoreSecure.

**.NET Intern, Product Development**, AMNIL Technologies Pvt. Ltd. — Jan 2024 – Apr 2024

- Built product features in C# and ASP.NET MVC with a product development team.

## KEY PROJECTS

**SBSC Certification Platform** · SBSC · Svensk Brand- och Säkerhetscertifiering — sbsc.se

ASP.NET Core · Next.js · SQL Server · SSDT · IIS · CI/CD

- **Ownership:** Sole developer of the certification and audit platform for SBSC, the Swedish fire and security certification body: admin, auditor and customer portals in Next.js, one ASP.NET Core API and two SQL Server databases.
- **Client communication:** Meet the Swedish client directly, gather and clarify requirements, demo releases and agree priorities.
- **Ticket management:** Own the ticket backlog, from triage and estimates to fix, release and follow-up with the client.
- **Mentoring:** Trained an intern on the codebase, the database conventions and the deploy process.
- **Stored procedures:** Business rules live in T-SQL. Action-based procedures (CREATE, READ, UPDATE, DELETE, LIST) validate input, query across both databases and return nested JSON, keeping complex logic close to the data and fast.
- **Entity Framework Core:** Used for the authentication tables (users, MFA secrets, reset and revoked tokens, email templates), where simple CRUD and LINQ keep login code short and type safe.
- **Database versioning:** Moved both databases (130+ tables, 40+ cross-database synonyms) from manual Schema Compare into SSDT projects in Git, with a three-pass build for the circular references, a staged deploy and numbered transactional migrations. Every schema change is now reviewed in a pull request, environments no longer drift, and a deploy is repeatable instead of a manual sync.
- **Data migration:** Moved customers, auditors and certification cases from the old system into the new platform with Python scripts and a migration API.
- **Testing and QA:** Test every change myself before release: AI-assisted testing with written test cases, SQL check scripts that seed data, run the real procedure and roll back, an access-control test run, and end-to-end checks across all three portals.
- **Security and DevOps:** Upgraded the API from .NET 8 to .NET 10, added MFA and Argon2, led a security audit (about 80 findings, five critical) and its fixes, and built GitHub Actions CI/CD to IIS for four environments.

**TulipsHRM** tulipshrm.com

SQL Server · T-SQL · EF Core · Data migration

- **Database design:** Designed the database structure for the cloud HR platform (payroll, attendance, leave, onboarding).
- **Data migration:** Migrated more than 10 clients from the old HR system into the new one.
- **Reusable script:** One parameterised T-SQL migration (source and target database as variables, dynamic SQL) covering about 300 tables, rerun per client.
- **Data integrity:** Kept the old primary keys with IDENTITY_INSERT so every foreign-key link survived, and paused triggers during the load.
- **Post-load fixes:** Backfilled missing values and defaults, and repaired leave balances, shift history and attendance data so every screen worked on day one.
- Data access with Entity Framework and stored procedures.

**OneMoreSecure** · OneMore Secure AB onemoresecure.se

ASP.NET Core · EF Core · SonarQube · Role access

- **Code optimization:** Removed duplicated logic across services and controllers, a net cut of about 3,800 lines.
- **Challenge:** Refactoring a live API without changing behaviour. Split oversized login, customer, supplier, document and report code into small, testable methods across 30+ files to bring cognitive complexity under the SonarQube limit.
- **Code quality:** Fixed SonarQube issues and security hotspots on a dedicated security branch.
- **Role-based access:** Reworked the role model (admin, primary, admin and secondary customer, auditor) for client users, and built the customer impersonation API.
- **Features:** File upload and download, actions list with Excel export, email log filters, and a no-change check that skips needless saves.

**Sentiment Detection**

Python · NLP · CRF

- **Research:** Classifies code-mixed Nepali-English product reviews as positive, negative or neutral.
- **Approach:** Lexicon-based scoring with Python, NLTK and a CRF model on hand-annotated corpora.
- **Recognition:** Paper presented at ICT-CEEL 2023, Khwopa Engineering College.

## EDUCATION

**Bachelor of Engineering in Computer Engineering** Graduated 2024 · CGPA 3.06

Everest Engineering College, Pokhara University, Lalitpur, Nepal