

MADAN SHRESTHA

SOFTWARE ENGINEER

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Software Engineer with 5 years of professional experience developing scalable web applications, backend services, and REST APIs. Experienced in **Node.js, TypeScript, NestJS, TypeORM, SQL and NoSQL databases, multi-tenant systems, API integration, and application deployment**. Focus on measurable outcomes: faster load times, lower infrastructure cost, higher test coverage, and happier users.

PROFESSIONAL SKILLS

Programming: TypeScript, JavaScript, Python

Backend: Node.js, Express, NestJS, Django, FastAPI, REST APIs, GraphQL, Redis

Databases: PostgreSQL, MySQL, MongoDB, SQL, NoSQL, Elasticsearch

Messaging & Real-Time: Firebase, WebSockets, Socket.IO

Frontend: React, Next.js, Redux Toolkit, React Query, Tailwind CSS, Material UI

DevOps & Cloud: Docker, Github Actions, Gitlab CI, Linux, VPS, cPanel, Server Deployment

Methodologies: Clean Architecture, SOLID, Agile/Scrum, code reviews, technical documentation

PROFESSIONAL EXPERIENCE

Associate Software Developer

Jun 2021 - May 2026

Sciever Inc Pvt Ltd

- Developed and maintained backend services, REST APIs, and database-driven applications using NestJS, TypeORM, and MySQL for a multi-tenant platform (~20 tenants, 10k+ users, 6k+ requests/day).
- Designed and implemented a multi-channel notification system (email, Firebase push, in-app, scheduled) tailored for multi-tenant use cases.
- Optimized notification pipeline, cutting average processing time from ~40 seconds to ~5 seconds by removing redundant queries, batching reads, and parallelizing async tasks.
- Introduced Redis caching and job queues, lowering database load by and enabling reliable background processing.
- Built a multi-tenant CMS with dynamic table creation and separate Sandbox, UAT, and Production environments, supporting fast, low-risk feature rollout.
- Integrated third-party services and contributed to database design, troubleshooting, testing, deployment, and Agile/Scrum delivery workflows.

Backend Developer Intern

Feb 2021 - May 2021

Up Tech Sys Pvt Ltd

- Developed and maintained backend functionality and REST APIs in Python, Django, and Django REST Framework for a school management system used by 6 schools and 4–5k students.
- Contributed to database design and implementation of core features such as class, students, and attendance management.
- Supported debugging, testing, and improvements to existing application functionality.

EDUCATION

Bachelor of Science in Computer Science and Information Technology
(Recognized by NARIC Flanders)

2016 to 2020

Tribhuvan University

Higher Secondary Education(HSEB) - Science Stream

2014 to 2016

Universal College HS School

LANGUAGES

- **Nepali:** Native
- **English:** C1
- **Hindi:** B2
- **Dutch:** A1 - Currently Learning