SONAM RAI

Full-Stack Developer — .NET 8 · Node/Express · React · SQL/PostgreSQL

+977 9702634069 | sonamraisx007@gmail.com | Itahari-2, Sunsari, Nepal | linkedin.com/in/sonam-rai-b63ab5215 | github.com/SoRa4762

PROFESSIONAL SUMMARY

Full-stack developer with 3+ years across industry and technical education, currently Assistant Lecturer for the year-long Data and Web module at Itahari International College. Implements features and REST APIs in .NET 8 and Node/Express with SQL and PostgreSQL data layers, validation, error handling, unit and integration testing and Git-based peer review. Teaches SQL, normalization, transactions and locking to 400+ students. Ready to relocate to Kathmandu.

TECHNICAL SKILLS

Languages: C#, TypeScript, JavaScript, SQL, C++ (Arduino), HTML/CSS
Backend & APIs: .NET 8 / ASP.NET Core, Node.js, Express.js, Entity Framework Core, Prisma, REST API design, CQRS (MediatR), AutoMapper, FluentValidation, API versioning, Swagger/OpenAPI, JWT and ASP.NET Core Identity
Frontend & Mobile: React.js, Next.js, React Native, Tailwind CSS, Material UI, shadcn/ui, Redux
Databases: PostgreSQL, MySQL, MongoDB, Firebase; complex SQL (joins, subqueries, aggregation), normalization (1NF–3NF), transactions and locking, indexing, query optimisation
Testing & Practices: unit testing fundamentals (xUnit, Jest), integration testing, API testing with Postman, UI automation (Playwright, Selenium), test cases from requirements, debugging and defect reproduction, regression checks, code review, technical documentation, release readiness, Agile/Scrum
Cloud & DevOps: AWS (S3, EC2, Lambda, IAM), Docker, Docker Compose, Git/GitHub (branching, pull requests), Linux, Jira, Trello

PROFESSIONAL EXPERIENCE

Itahari International College **Jul 2023 – Present**
Assistant Lecturer — Data and Web | Cloud Computing and IoT · Itahari, Nepal

- Teach a year-long Data and Web module to 400+ students: relational modelling and normalization (1NF–3NF), SQL from single-row and multi-row functions through joins and nested/correlated subqueries, transactions and locking mechanisms, plus data mining.
- Maintain module specifications, lab manuals and setup instructions; review submitted source code line by line, debug reported failures and return documented findings on correctness, validation gaps and query performance, then track fixes to closure. Mentor learners through their first pull requests.
- Delivered the Cloud Computing & IoT module (AWS S3/EC2/Lambda/IAM, Arduino sensor projects) with weekly labs and troubleshooting clinics for 40+ students per cohort.
- Designed and delivered two 60-day summer intensives (3 hours daily): React.js + .NET (2024) and MERN stack with React Native (2025), from JavaScript fundamentals to deployed full-stack applications.

The Nineties Tech **Mar 2023 – Jun 2023**
React.js Developer · Lalitpur, Nepal

- Built React and Next.js features in TypeScript with Redux and Material UI for client applications, working from agreed requirements and designs.
- Implemented a Web3 / MetaMask token-exchange interface with Goerli testnet transactions and transaction-hash decoding, and consolidated redundant API calls behind a single state layer to improve load performance and error handling.

Kyanite **Aug 2021 – Nov 2021**
Front-End Intern · Itahari, Nepal

- Built component-based React interfaces and a Node.js/MySQL application, fixing UI defects raised in review and documenting component usage for the team.

SELECTED PROJECTS

Sentilens — .NET 8 REST API, CQRS, ML.NET sentiment scoring github.com/SoRa4762/Sentilens

- Built a versioned REST API for news aggregation on .NET 8 using Clean Architecture (Core, Application, Infrastructure, API), dependency injection, MediatR CQRS handlers and AutoMapper DTO mapping.
- Implemented EF Core persistence against PostgreSQL (Npgsql) with repository abstractions, FluentValidation request rules and centralised error handling; secured endpoints with JWT bearer authentication and documented them in Swagger/OpenAPI.
- Preserved backward compatibility across releases with Asp.Versioning, and wired an ML.NET sentiment model into the ingestion pipeline to score each aggregated article in real time.

CareerHub (careerhub2.0) — Next.js + Prisma + PostgreSQL github.com/SoRa4762/Enrichment-2026

- Full-stack application on Next.js 16 / React 19 with Prisma ORM over PostgreSQL, JWT authentication with hashed credentials and a Tailwind UI; added idempotent seed scripts for repeatable test data.

HRMS — Express 5 API with TypeScript/React client github.com/SoRa4762/HRMS

- Three-tier HR management system: Express 5 REST API with Mongoose/MongoDB, JWT authentication and role-based access control, plus web and mobile clients; hardened a related build with Helmet security headers, Multer upload validation and CSV bulk import.

IIC Alumni Network — College Research & Development Team

- Contributed to the college's alumni platform — a social-media style web application for IIC students and graduates with profiles, posts, connections and an activity feed — implementing assigned features in a small R&D team and applying reviewer feedback before delivery.

EDUCATION, CERTIFICATION & LANGUAGES

BSc (Hons) Computing — Itahari International College, Dulari, Nepal **2019 – 2022**
First Class Honours. Coursework: database systems, computer networks, full-stack web development, cloud computing.
AWS Academy Cloud Foundations — AWS Academy (graduate credential)
Nepali (native) · English (professional) · Hindi (conversational)