

Rajan Sharma

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Profile

Passionate Computer Engineering graduate skilled in programming, problem-solving, and software development. Excited to leverage technology for innovative solutions. Strong analytical and communication abilities, with a drive to lead projects and embrace new challenges

Education

Kantipur Engineering College, IOE-TU Nov 2018 - Mar 2023
Bachelors in Computer Engineering
Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Microprocessor, Computer Architecture and Organization

Work Experience

Uranus Tech Nepal Kathmandu - Nepal
Software Engineer Apr 2024 - Present

- Designed and implemented Blazor components for interactive web applications.
- Worked extensively with SQL Server, optimizing queries and managing database structures.
- Developed APIs and backend logic in .NET Core for seamless frontend-backend integration.
- Designed and optimized database schemas, stored procedures, and queries in SQL Server.
- Participated in code reviews, debugging, and troubleshooting to maintain application quality.

Teksewa Kathmandu - Nepal
Associate Software Engineer Nov 2023 - Mar 2024

- Developed Web APIs using .NET, showcasing proficiency in C#.
- Managed PostgreSQL databases and implemented stored procedures for efficient data handling.
- Contributed to AI components, enhancing system functionality and introducing innovative solutions.
- Collaborated with cross-functional teams to analyze requirements and implement system improvements.
- Stayed updated with industry trends and technologies through knowledge-sharing sessions.
- Maintained version control using Git for streamlined development processes.

Teksewa Kathmandu - Nepal
Database and .NET Internship Aug 2023 - Oct 2023

- Designed and implemented various stored procedures to handle different scenarios in the database, enhancing data processing efficiency and response times.
- Orchestrated data automation processes to parse and extract valuable information, streamlining data ingestion and validation procedures.
- Collaborated closely with diverse teams to design and deploy tailored database solutions for specific project needs.
- Assisted in documenting database schemas, ER diagrams, and system architecture, promoting knowledge sharing among team members.
- Took an active role in the development and maintenance of .NET applications, using C# and ASP.NET to deliver a range of functionalities.

Summary

- Strong knowledge of C# and the .NET framework.
- Solid understanding of Object-Oriented Programming (OOP) principles.
- Proficient in database design and creating various stored procedures.
- Familiarity with Agile methodologies and development tools like Git.

Professional Affiliation

- Nepal Engineering Council**
Member, Reg. No. 91026, Computer Engineering 'A'

Project Work

- **Human Resource Management System:** Developed a full leave application process with approval workflow and report generation. Also contributed to the payroll module for salary processing and employee compensation management using .NET, Blazor, and SQL Server.
- **UraCare:** Implemented a complete leave application and approval process, pay rate setup, and automated email and report delivery using an SMTP server, along with custom report generation for clients using .NET, Blazor, and SQL Server.
- **Micro Finance Microservice:** Contributed to developing a comprehensive microservice to support microfinance operations for a Class C bank. Worked on features including loan processing, customer management, financial transactions, loan tracking, and more. Technologies used include .NET Core, C, Blazor, with MSSQL as the database.
- **ScholarBox:** Migrated the ScholarBox application from Ruby on Rails to a .NET Web API and helped redesign the database for better performance and maintainability. Developed API integrations with the OpenAI API for automated extraction and storage of scholarship information, implemented automation and stored procedures to filter and match relevant scholarships, and contributed to a browser extension for seamless access and integration.
- **Chat Room:** Developed a real-time chat application where users can create groups and communicate with each other. Implemented real-time messaging using SignalR with .NET and SQL Server for backend data management.
- **Expense Tracker:** Developed a personal finance management system to track income and expenses, categorize transactions. Implemented CRUD operations, interactive charts and SQL Server database integration; designed for future enhancements such as report generation, multi-user support, exportable PDF/Excel reports, and advanced analytics dashboards. *Technologies:* C#, ASP.NET MVC, Entity Framework, SQL Server, Bootstrap.
- **ChatAppBlazorServer:** Developed an AI chatbot using **Blazor Server** integrated with the **OpenAI API** for interactive and intelligent conversation. Designed with a modular architecture and dynamic backend configuration for scalability and maintainability. *Future Work:* Training custom LLMs with organization-specific data for localized AI responses. *Technologies:* C#, Blazor, ASP.NET Core, OpenAI API.

Programming Skills

Programming Language: C/C++, C#, Python, JavaScript

Frameworks: : .NET, Blazor, Git/Github

Web Technologies: : HTML, CSS, JavaScript, React

Database: : PostgreSQL, MySQL, SQL Server

Certifications

- **React- JS Complete Guide for Frontend Web Development (2025) - Udemy**
- **C# Console and Window Forms Development w/ Entity Framework (2025) - Udemy**
- **Responsive Web Design (2024) - FreeCodeCamp**
- **Learn C and make a videogame with Unity (2023) - Udemy**
- **Essentials Program in Python & Django (2021) - LetsUpgrade**