ROSHAN MAHARJAN

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SOFTWARE ENGINEER

AWS certified Software Engineer with over 5 years of experience specializing in C# and .NET for web and desktop applications. Over the past 3 years, developed and maintained software solutions in the U.S. insurance domain, focusing on requirement analysis, architecture design, development, and AWS Cloud deployment. Previous experience includes building applications across medical, HR, hospitality, CRM, and appointment booking systems. Skilled in delivering end-to-end solutions for complex business needs, collaborating effectively with global teams across different time zones.

• Microservices • SOLID Principle • Dependency Injection • Object-Oriented Programming (OOP)
• Data Structure • Database Management • Web Services • Design Patterns

Languages: C#, JavaScript, Typescript
Web: HTML, CSS, TailwindCSS, jQuery, Angular, Bootstrap
Web Services: REST, Single Page Application
Web/App Servers: IIS
Frameworks: ASP.Net MVC, ASP.Net Core, Entity framework, ABP.io, Angular, Bootstrap, NUnit, Moq
Databases: MS SQL, Oracle, MySQL, PostgreSQL, Redis
Design Patterns: Singleton, Factory Method, Abstract Factory, MVC
SDLC: Agile
Tools: Visual Studio, GitHub, JIRA, SSMS, PgAdmin, Postman, Hashicorp Vault, Swagger
Platforms: Windows, AWS

PROFESSIONAL EXPERIENCE

CAREER NOTE: *Completed on-campus studies and currently taking distance education courses to complete a **Master's Degree in Computer Science** (Available for full-time, W-2 employment).*

VERISK, Lalitpur, Nepal • 08/2021 – 06/2024
An American multinational data analytics and risk assessment firm with customers in insurance.
Software Engineer

Optimized Insurance System with API Development, Cloud Migration, and Security Enhancements.
- Developed APIs for the insurance delivery module using C#, ASP.Net, and WCF, improving system interoperability and performance.
- Migrated Commercial Lines Manual Applications from on-premise servers to AWS with zero downtime, reducing monthly server costs to $500.
- Strengthened security by integrating HashiCorp Vault for secret management and Redis for caching, enhancing password and key management across 100+ .NET applications.
- Conducted unit testing with NUnit, MOQ, and SonarQube, increasing code coverage by 15% and ensuring high-quality API functionality.
- Improved efficiency and failover mechanisms in Commercial Lines Manual and Suite+ Applications, reducing delivery pipeline issues by 30%.
- Engineered desktop application for delivery of historical data and documents for the Suite+ application using Winform, cutting the generation and delivery time by 60%.

Technologies Used: *C#, .Net Framework, .Net Core, Visual Basic, WCF, ASP.Net, SQL Server, PostgreSQL, Redis, Hashicorp Vault, AWS, Postman, Winform, NUnit, Moq.*

AMNIL TECHNOLOGIES, Lalitpur, Nepal • 04/2020 – 07/2021
A software development company specializing in enterprise level projects.

Software Engineer
Full-Stack Development & System Optimization for Performance Management and Pharmaceutical Software.
- Developed robust software solutions using .NET, ABP.io, and Angular for Ncell Axiata's Performance Management System and Medico pharmaceutical software, completing projects in 8 and 6 months, respectively.
- Engineered decoupled microservices for application using RabbitMQ and SignalR, ensuring no bottlenecks between the services, resulting in improved system performance and scalability by 23%.
- Built report generation modules handling large datasets for 300 users using EPPlus, Entity Framework Core, and MySQL, reducing report generation time to under 5 seconds (80% improvement).

- Designed databased architecture for MySQL using the code-first approach with Entity Framework Core resulting in optimizing data management and supporting scalable application development.
- Built frontend single page application using Bootstrap, Angular and backend using .NET APIs, ensuring user friendly design and experience.
- Created CI/CD pipelines using Jenkins, Portainer, Docker which significantly enhanced the development, deployment, and testing process efficiency by 40%.
- Implemented single sign-on application leveraging Identity Server, OAuth/OpenId Connect, and Abp.io framework which help with flexibility of more application integrations.

Technologies Used: *C#, .Net Core, Microservice, ABP.io, RabbitMQ, SignalR, Angular, Bootstrap, OAuth/OpenId Connect, Identity Server, MySQL.*

CROSSOVER NEPAL, Lalitpur, Nepal ● 08/2018 – 03/2020
A software development company specializing in the hospitality industry.

Software Engineer (07/2019 – 03/2020)
Develop, test, and maintain high-quality web and desktop applications using C# and .NET framework. Write clean, scalable, and efficient code. Work on both front-end and back-end development tasks.
- Built a WinForm application module for credit management using WinForms, enhancing the application's functionality which improved workflow efficiency by 7%.
- Built in-house CRM software for customer support using ASP.Net Core, Bootstrap, HTML, CSS, jQuery, and MSSQL accomplished a 19% increase in customer retention and a 25% increase in customer satisfaction.
- Engineered reusable UI/UX components for frontend development using AngularJS, HTML, CSS, improving development process across the team.

Junior Software Engineer (08/2018 – 12/2018)
- Developed an Appointment Scheduling App using ASP.NET MVC, Entity Framework, and MSSQL, ensuring seamless scheduling with a responsive design for desktop and mobile views using Bootstrap and jQuery.
- Designed responsive and visually appealing web designs for UI/UX using HTML, CSS, jQuery, Bootstrap, and AngularJS, achieving a user-friendly interface.
- Tested APIs and features for existing systems using Postman, accomplished high-quality software delivery by efficiently identifying and resolving bugs.

Technologies Used: *C#, .Net Framework, .Net Core, ASP.NET MVC, ASP.NET Core, jQuery, bootstrap, Angular, HTML, CSS, WinForm, MSSQL.*

ACADEMIC PROJECTS

Maharishi International University (2024)
- **Policies for Better Campus Experience:** Developed a full-stack web application using React and Express, implementing state management, REST API interactions, and a component-based architecture. Displayed user policies by calendar year, sorted by votes, with browsing access for guests and contribution rights for registered users. Secured protected actions with server-side middleware for user verification. Technologies: TypeScript, Node.js, Express, Tailwind CSS, React.

- **StudyHub:** Developed a web-based platform enhancing learning through AI-powered features. Enabled users to upload, share, and interact with educational materials while leveraging AI for search, summarization, and quizzes. Implemented security and efficiency measures, including JWT-based authentication, lazy-loaded frontend routes, and strict typing. Technologies: TypeScript, Node.js, Express, Tailwind CSS, Angular, MongoDB, OpenAI APIs.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 04/2027)
Maharishi International University, Fairfield, Iowa

Key Courses: *Algorithm, Web Application Programming, Modern Web Applications, Cloud Computing*

Bachelor of Science in Computing
The British College, Kathmandu, Bagmati (07/2018)

CERTIFICATION

AWS Solutions Architect Associate **(02/2025)**