

RAHUL LAMA

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.NET FULLSTACK SOFTWARE ENGINEER

AWS Certified Software Engineer with 3 years of experience designing and delivering secure, cloud-based applications in the U.S. healthcare technology space. Proficient in C#/.NET, TypeScript, and React, with strong AWS expertise across IAM, EC2, S3, Lambda, and SQS — including designing secure cross-account cloud integrations. Experienced in building responsive single-page web applications, RESTful APIs, and authentication/authorization systems. Skilled in identifying and remediating application security vulnerabilities, with a solid foundation in Agile delivery, CI/CD pipelines, and cross-functional collaboration.

- Web API Design & Development • Single-Page Application (SPA) Architecture • Cloud Architecture & Deployment
- Infrastructure as a Service (IaaS) • Serverless Computing • Secure Authentication & Authorization
- Application Security • Vulnerability Assessment & Remediation • CI/CD Pipeline Management

Languages: C#, TypeScript

Web: React, HTML, CSS, TailwindCSS, jQuery, Bootstrap

Web Services: REST, Single Page Application

Web/App Servers: IIS

Frameworks: .NET

Databases: MS SQL, PostgreSQL, AWS DynamoDb, AWS RDS

Design Patterns: Singleton, Factory Method, Abstract Factory, MVC

SDLC: Agile/Scrum

Tools: Jenkins, Visual Studio, GitHub, JIRA, SSMS, PgAdmin, Postman, Swagger

Platforms: Windows, Amazon Web Services (AWS)

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).

PROFESSIONAL EXPERIENCE

INFINITE COMPUTER SOLUTIONS, Kathmandu, Nepal • 05/2024 – 01/2026

Infinite is a global digital engineering and IT services company helping organizations modernize, optimize, and scale technology through digital transformation, innovative platforms, and engineering solutions.

Software Engineer

Worked for American client Cotiviti, multinational solutions and analytics company with customers in healthcare.

- Developed backend features for Cotiviti's Eliza® Member Engagement platform, supporting personalized healthcare outreach across IVR, Email, SMS, and Secure Digital channels for 50M+ health plan members.
- Designed and maintained reusable C#/.NET NuGet packages and shared libraries for distributed worker services, including an IAM Roles Anywhere authentication package that standardized X.509 certificate-based retrieval, caching, and renewal of temporary AWS credentials.
- Developed deployment automation in Metras Manager using C# and the AWS SDK, orchestrating artifact selection, EC2 Auto Scaling capacity changes, and rolling deployment across more than 30+ .NET worker instances with zero downtime.
- Built secure, event-driven AWS integrations using API Gateway, Lambda, SQS, DynamoDB, IAM Roles Anywhere, and AWS Private CA, enabling certificate-based authentication and reliable asynchronous processing.
- Enhanced Nova Designer, a drag-and-drop healthcare workflow application, using C#/.NET, TypeScript, jQuery UI, HTML, and CSS; managed development and staging deployments to EC2 using AWS CDK, CloudFormation change sets, and Jenkins CI/CD.
- Developed backend functionality using SQL Server (Amazon RDS) and DynamoDB, optimizing T-SQL queries and implementing efficient data access patterns for healthcare workflows.
- Improved application security and production reliability by remediating Veracode findings, troubleshooting distributed-service failures using CloudWatch, and using GitHub Copilot to accelerate code development, unit-test generation, refactoring, and technical documentation while validating all AI-generated suggestions through code reviews and automated testing.

Technologies Used: C#, .NET Framework, .NET Core, ASP.NET, REST APIs, Worker Services, NuGet, TypeScript, HTML, CSS, SQL Server, T-SQL, AWS EC2, Lambda, API Gateway, SQS, DynamoDB, RDS, S3, IAM Roles Anywhere, AWS Private CA, CloudWatch, Secrets Manager, AWS CDK, AWS SDK, CloudFormation, Jenkins, Git/GitHub, Jira, Confluence, Veracode, Entity Framework, LINQ.

INFODEVELOPERS PRIVATE LIMITED, Sanepa, Nepal • 04/2023 – 05/2024

InfoDevelopers Private Limited is a Nepal-based fintech and IT consulting company specializing in banking automation, digital government solutions, AI, mobile applications, and enterprise software development.

Software Engineer

Developed C#/.NET applications and optimized SQL Server databases, collaborating with product and QA teams to implement features, resolve bugs, build TypeScript frontends, automate workflows, and support Agile delivery.

- Contributed to a microservices-based mutual fund application using C#/.NET 7 and React, developing RESTful APIs and frontend components for investment management workflows.
- Designed and implemented a centralized IdentityServer4 identity provider, issuing OAuth 2.0/OpenID Connect tokens and enabling consistent authentication and role-based authorization across React clients and .NET microservices.
- Improved financial reporting performance by 20% by optimizing T-SQL stored procedures and complex SQL Server queries for a reporting system generating over 100 financial reports.
- Implemented asynchronous inter-service communication using MassTransit and RabbitMQ, enabling reliable event-driven messaging across microservices and decoupling service dependencies.
- Developed comprehensive unit tests using xUnit for API endpoints and business logic, improving application reliability and reducing regression issues.
- Created Improved API maintainability and operational support by creating Swagger/OpenAPI documentation and implementing structured logging with Serilog, simplifying integration, testing, and production troubleshooting.

Technologies Used: C#, .NET 7, ASP.NET Core, React, JavaScript, REST APIs, Microservices, LINQ, IdentityServer4, JWT, SQL Server, T-SQL, xUnit, Swagger/OpenAPI, Serilog, Git, Postman, Entity Framework, MassTransit, RabbitMQ.

INFODEVELOPERS PRIVATE LIMITED, Sanepa, Nepal • 01/2023 – 04/2023

Software Engineer Trainee

- Developed and maintained HRIS features using C#, ASP.NET, .NET Framework, jQuery, JavaScript, SQL Server, HTML, and CSS, supporting employee management and HR workflows.

Technologies Used: C#, ASP.NET, .NET Framework, jQuery, SQL Server, JavaScript, HTML, and CSS.

ACADEMIC PROJECTS

Maharishi International University (2026)

- **Gym Buddy Platform:** Full-stack Node.js/Express/Angular/MongoDB app with JWT auth, vector-based buddy matching (MongoDB Atlas), and RAG-powered AI fitness coaching using OpenAI embeddings + GPT-4o-mini with 30-day TTL caching.
- **Video Streaming Platform:** Developed a full-stack video streaming platform using the T3 Stack with Next.js, tRPC, Drizzle, NextAuth.js, PostgreSQL supporting multi-profile streaming, reviews, watch history, and role-based access. Built a hybrid movie recommendation engine in Python using TF-IDF content-based filtering, KNN collaborative filtering, and watch history signals, exposed through a REST API.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 10/2028)

Maharishi International University, Fairfield, Iowa

Key Courses: Software Engineering, Algorithms, Web Application Programming

Bachelor of Science in Computer Science and Information Technology

Tribhuvan University, Kathmandu, Nepal (11/2022)

CERTIFICATIONS

[AWS Certified Developer - Associate](#)