

Ramya Kumar

Vancouver, Canada (Open To Relocation) | 604-203-9314 | ramya04.kumar@gmail.com | LinkedIn | GitHub | Portfolio

SUMMARY

- **C#/.NET Developer** with **5+** years of professional experience building and modernizing cloud-native .NET applications.
- Strong expertise in **C#, ASP.NET Core, MVC, REST API's, MS SQL/Entity Framework**, and front-end development using **React**.
- Proven track record modernizing legacy systems, improving performance and reliability, and delivering production features in **Agile** teams.
- Actively integrating **LLM APIs** and AI workflows into practical applications while expanding hands-on experience with modern databases and cloud deployment patterns (**AWS**).

TECHNICAL SKILLS

Languages / Frameworks: C#, .NET Core (ASP.NET Core), ASP.NET MVC, WCF, WPF, JavaScript, TypeScript, React

APIs / Patterns: REST, GraphQL, Microservices, SOA, OOP, SOLID, Repository & DI patterns

Databases: MS SQL Server, Entity Framework, Elasticsearch

Cloud / DevOps: AWS (EC2, S3, Lambda, EventBridge), CI/CD (AWS CodePipeline, Jenkins, Octopus)

AI / Tools: LLM APIs (OpenAI, Groq), Prompt Engineering, Tokenization, API-based AI integration, GitHub Copilot 4.1, AWS Q Developer

EXPERIENCE

Software Developer(Contract)

Aihiki Group Inc

Oct 2025 – Present

Vancouver, Canada

- Contributed to the development of a CRM-oriented application, focusing on backend services in **C#/.Net** and strengthening integration between application services and relational databases.
- Integrated **cloud-based components** into the client's payment and invoicing workflows by scheduling automated invoice processing using **event scheduler and lambda functions**, improving scalability and system performance.
- Developed and optimized **stored procedures and queries** to enable faster data retrieval by backend services, resulting in improved application response times.
- Supported **continuous delivery** using **Jenkins**, assisting with automated build and deployment processes across development and testing environments.

Software Developer (Contract)

Mark Anthony Group

Apr 2025 – Sep 2025

Vancouver, Canada

- Modernized legacy systems by migrating services to **.NET Core** and AWS (EC2, Lambda, S3, EventBridge), improving system performance and reliability by **35%**.
- Transitioned billing invoice generation from Windows scheduled jobs to **AWS EventBridge Scheduler**, automating invoice processing for **\$2M+** claims and reducing overall processing time by **50%** through optimized **SQL** workflows.
- Migrated a core legacy app to a **.NET Core** web architecture and scheduled background jobs via EventBridge Scheduler, increasing scalability and resiliency.
- Supported application deployments using **AWS CodePipeline** and **Jenkins**, and integrated AWS CloudWatch and Datadog for monitoring and operational visibility across environments.
- Designed, developed, and maintained **SSRS reports**, optimizing underlying queries to improve data accuracy, report performance, and reliability for business stakeholders.
- Identified and resolved **critical bugs** by performing root cause analysis and implementing long-term fixes to improve application reliability and reduce recurring issues.

Software Developer

Fidelity Investments

Sep 2021 – Aug 2023

Chennai, India

- Built data ingestion pipelines and migrated on-premises datasets (**Elasticsearch**) to AWS S3 using **DataSync**, created Bash scripts to extract and process XML datasets concurrently.
- Implemented **SAML 2.0** SSO integrations to securely exchange client data with third-party APIs, ensuring compliance with platform security requirements.
- Developed responsive frontend components using **React** and **JavaScript**, optimized user flows to reduce unnecessary redirects and improve user satisfaction.

- Improved backend performance through stored procedure and query optimization, leveraged **Entity Framework** and **LINQ** for reliable data access.
- Implemented comprehensive unit tests with **NUnit**, strengthening code quality, reducing defects, and supporting maintainable, production-ready financial systems.
- Worked with product owners to prioritize features and participated in **architecture** discussions and **code reviews**, helping shape roadmap and delivery estimates.
- Used runbooks to schedule dataset migrations and supported deployments through Jenkins, including release package management.

Senior System Engineer

Walmart(Infosys)

Jul 2018 – Sep 2021

Hyderabad, India

- Developed and maintained Connexus, a **VB.NET-based** desktop application utilizing WPF for the user interface and **WCF** services for backend communication, implementing **SOAP/XML** messaging for secure and reliable data exchange.
- Implemented multi-threaded service components to reduce POS operational time from 15–20 minutes to 2–3 minutes, dramatically improving throughput.
- Built .NET Core **microservices** and **REST APIs** to support vaccination workflows, increasing processing capacity and reducing manual processes.
- Performed comprehensive API testing using **Swagger** and **Postman**, and implemented automated unit tests with **NUnit** to validate service functionality.
- Developed detailed UML design documentation, including use case and class diagrams, to clearly define system behavior, service interactions, and object relationships for development and review.
- Created **Splunk** dashboards to monitor application health, analyze operational metrics, and enable faster incident detection and resolution.
- Utilized **SonarQube** to analyze code quality, identify vulnerabilities, and enforce coding standards, contributing to more maintainable and reliable applications.

PROJECTS

Smart Recipe Assistant (LLM Integration)

Python, Gradio UI, Groq Models, OpenAI, Hugging Face

[GitHub Link](#)

[Live Demo](#)

- Developed an AI-driven recipe generator using Python, Gradio, and Groq LLMs.
- Implemented image-based calorie and macro breakdown using computer vision workflows.
- Deployed the application on Hugging Face Spaces for public access and demo.

AI-Powered Personal Assistant Chatbot

Python, OpenAI, Gemini, GitHub Pages

[GitHub Link](#)

[Live Demo](#)

- Integrated an LLM-based chatbot into a personal portfolio website to improve user interaction and showcase practical AI capabilities.
- Used API-based model integration and prompt engineering techniques for conversational flow.

REST to GraphQL API Modernization

.Net 8, GraphQL, Web API

[GitHub Link](#)

[Live Demo](#)

- Converted REST APIs to GraphQL to optimize data querying and reduce over-fetching.
- Improved performance, reduced payload size, and enhanced response times for client applications.

EDUCATION

Anna University

B.E. Computer Science And Engineering

Chennai, India

Aug 2014 – Apr 2018

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Application Development using Microservices And Serverless