

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

Jul 2018 – Sep 2021

Walmart(Infosys)

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)

GitHub Link

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

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

GitHub Link

Python, OpenAI, Gemini, GitHub Pages

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

- 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

Chennai, India

B.E. Computer Science And Engineering

Aug 2014 – Apr 2018

CERTIFICATIONS

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