# GOPINATH MUTHUKRISHNAN

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Senior Software Engineer | .NET (C#) | Azure Cloud | Microservices | React/TypeScript

## Summary

## Full-stack engineer with 14+ years of experience in .NET and Azure, delivering cloud-ready solutions for companies including Tata Consultancy Services and Mphasis. Spearheaded microservices migration, improving scalability and developer velocity by 25%. Authored API contracts/standards and acted on interoperability across services via APIM, reducing integration costs by 40% for Equadriga Software / Breas Medical. Promoted multiple times at Tata Consultancy Services, from Trainee to Technical Architect and Senior Full-Stack Developer.

## Core Competencies

* **Languages & Frameworks:** C#, .NET 8/7/6/5, ASP.NET Core, Web API, LINQ, EF Core, Node.js, Python
* **Front End:** React, TypeScript, Angular, JavaScript, HTML5/CSS3, SPA, Responsive UI, Accessibility (WCAG 2.1)
* **Architecture & Patterns:** Microservices, REST/gRPC, DDD, Clean Architecture, CQRS, Messaging, Event‑Driven, API Gateway, Circuit Breaker
* **Cloud (Azure‑first):** App Service, AKS, Azure Functions, APIM, Service Bus, Event Grid, Event Hubs, Key Vault, Azure Storage, Cosmos DB, Azure SQL, Redis, App Insights, Azure Monitor, Log Analytics
* **DevOps & Platform:** Azure DevOps, GitHub Actions, CI/CD, Docker, Kubernetes, Helm, IaC (Bicep/Terraform/ARM), Feature Flags, Blue/Green & Canary
* **Security & Quality:** Azure AD, MSAL, OAuth2/OIDC, OWASP, Secrets Mgmt, xUnit/NUnit, Jest, Cypress/Selenium, Robot Framework, Swagger/OpenAPI

## Experience

### Software Engineer II / Project Lead — Mphasis

Hyderabad, India • 03/2025 – Present

* Implemented new services/features in ASP.NET Core and React; aligned scope with product goals and measurable OKRs.
* Validated API functionality via Postman collections, catching 15+ integration bugs and improving system reliability by 40%; established xUnit testing procedures enabling continuous integration and deployment pipelines.
* Deployed automated testing frameworks (xUnit, Postman) that caught at least 10 critical bugs, ensuring code quality and reducing defects by 25%.; improved operational efficiency with automation and CI/CD.
* Facilitated knowledge‑sharing; onboarded engineers; enforced code quality via reviews and static analysis.
* **Tech:** C#, ASP.NET Core, Web API, React, Azure DevOps, App Insights, SQL, Git, CI/CD

### Senior Software Developer — Global Client Technology / NationsBenefits

Remote (TX, USA) • 03/2023 – 01/2025

* Built reusable React/TypeScript components and shared modules within a design system to accelerate delivery.
* Championed consistent code quality and maintainability across 10+ projects, enforcing coding standards and best practices that reduced bug reports by 15% and fostered team collaboration;
* translated client requirements into technical specifications and plans.
* Integrated new features across services (REST) and reduced rework via reusable libraries and patterns.
* Orchestrated cross-functional collaboration between QA, product, and development teams; 10+ successful web releases under Agile/Scrum, decreasing critical post-release defects by 15% and improving user satisfaction.

**Tech:** React, TypeScript/JavaScript, .NET Core APIs, REST, Git, Agile/Scrum

### Senior Full‑Stack Developer / Tech Lead — Equadriga Software / Breas Medical

Remote (MA, USA) • 04/2022 – 12/2022

* Led microservices architecture (.NET Core + React) to improve flexibility, scalability, and release cadence.
* Authored API contracts/standards; drove interoperability across services via APIM and versioned schemas.
* Deployed to Azure/AWS using resilient, cost‑efficient patterns; integrated Key Vault, App Insights, dashboards.
* Strengthened quality via unit/integration tests and automation using Python + Robot Framework.
* **Tech:** C#, ASP.NET Core, React, REST, Azure/AWS, APIM, Key Vault, App Insights, SQL/NoSQL, Python

### Senior Front‑End Developer — Coducer Tech

Bangalore, India • 01/2022 – 04/2022

# Developed microservices‑aligned UI modules; integrated REST endpoints; added monitoring/alerts for reliability.

* Spearheaded accessibility updates site-wide, resolving 50+ WCAG violations and achieving a 95+ Lighthouse score on mobile and desktop, presented findings to fix the three biggest causes of accessibility issues.; mentored juniors.
* **Tech:** React/Angular, TypeScript/JavaScript, Performance Optimization, CI/CD, REST

### Senior Front‑End / Senior Full‑Stack Developer / Technical Architect / Trainee — Tata Consultancy Services Ltd.

Bangalore, India • 01/2010 – 12/2021

* Implemented API Gateway to route/filter to microservices; Filter malicious requests and authenticate users, enhancing security posture and minimizing unauthorized access attempts by 40%.
* Built reusable UI components (React/Angular); engineered RESTful services and secure coding practices.
* Championed Agile/Scrum; managed Git workflows; influenced architecture for scalability and maintainability.
* Guided 3 junior engineers in adopting secure coding practices and test-driven development, which decreased the number of security vulnerabilities by 15% within six months.

**Tech:** C#, ASP.NET, React/Angular, REST, SQL, Git, Agile/Scrum

## Education

Master’s Degree • Coimbatore Institute of Technology • 06/2009