# GOPINATH MUTHUKRISHNAN

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## Role

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

## Summary Highlights

* Azure‑first engineering: App Service, AKS, Functions, APIM, Service Bus, Event Grid, Key Vault, Cosmos DB, Azure SQL
* Operational excellence: CI/CD (Azure DevOps/GitHub Actions), App Insights/KQL dashboards, SLI/SLO error budgets
* Modern architecture: DDD, Clean Architecture, CQRS, messaging, event‑driven services, API versioning & OpenAPI 3
* Security by design: Azure AD, MSAL, OAuth2/OIDC, secret management, OWASP, secure coding and reviews
* Customer obsession: partner with PM/Design to ship accessible, performant UX (WCAG 2.1), reduce MTTR, and prevent regressions

## 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

* Delivered new services and features in ASP.NET Core and React, aligning delivery with product goals and OKRs; contributed to a 15% increase in feature adoption and reduced average release cycle time by 20%.
* Established test and validation procedures (xUnit, Postman collections) and live-site monitoring via Application Insights (KQL queries, alerts), reducing critical post-release defects by 30%.
* Implemented secure update/patch cycles and automated multi-stage CI/CD pipelines, cutting deployment time by 40% and improving operational efficiency.
* Improved system reliability by instrumenting tracing and metrics (OpenTelemetry), defining SLOs, and closing RCAs; reduced MTTR by 25%.
* Facilitated team onboarding and knowledge sharing, enforcing code quality via peer reviews and SonarQube static analysis; decreased code smells and vulnerabilities by 35%.
* **Tech**: C#, ASP.NET Core, Web API, React, Azure DevOps, App Insights, KQL, 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 centralized design system, accelerating feature delivery by **25%** and ensuring UI consistency across applications.
* Led **code reviews** and enforced coding standards, improving code quality scores by **30%** and reducing post-release bugs by **20%**.
* Integrated new features across distributed services (REST APIs) and implemented **reusable libraries/patterns**, cutting development rework by **35%**.
* Enhanced performance via **code splitting, tree shaking, and image optimization**, reducing bundle size by **40%** and improving page load times by **28%**.
* Supported **desktop and mobile releases** in a Scrum environment, maintaining a 95% on-time delivery rate and enabling seamless cross-team integrations.
* **Tech:** React, TypeScript/JavaScript, .NET Core APIs, REST, Git, Agile/Scrum, Webpack/Vite

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

Remote (MA, USA) • 04/2022 – 12/2022

* Led **microservices architecture** delivery (.NET Core + React), increasing system scalability by **40%**, improving release cadence by **30%**, and reducing deployment risk through modular service design.
* Authored **API contracts and standards**; improved interoperability across services via **APIM** and **versioned OpenAPI schemas**, decreasing integration defects by **25%**.
* Deployed workloads to **Azure** and **AWS** using resilient, cost-efficient patterns; optimized infrastructure costs by **15%** while maintaining high availability.
* Implemented **secure secret rotation** and **managed identities**; added **health probes** and readiness checks, reducing production incidents caused by misconfigurations by **35%**.
* Enhanced product quality by building **unit/integration tests** and automation frameworks using **Python + Robot Framework**, increasing automated test coverage to **85%** and cutting manual QA time by **50%**.
* **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

* Delivered **microservices-aligned UI modules** and integrated **REST endpoints**, improving feature delivery speed by **25%** and ensuring system reliability through proactive monitoring and alerting.
* Refactored the front-end architecture for **performance and responsiveness** using lazy loading, code splitting, and caching, reducing page load times by **40%** and improving Core Web Vitals scores.
* Mentored junior developers, accelerating their onboarding and reducing code review rework by **20%** through structured guidance and best practices.
* **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

* Pioneered **API Gateway** implementation for request routing and filtering across microservices, reducing **average request latency by 25%** and boosting **system throughput by 40%**.
* Developed **10+ reusable UI components** in React/Angular, cutting UI development time by **30%**, ensuring design consistency, and enforcing **secure coding practices**.
* Drove **Agile/Scrum adoption** and managed Git workflows for an **8-member engineering team**, accelerating release cycles by **15%** and reducing **critical bugs by 22%** through improved code quality.
* Partnered with cross-functional stakeholders, mentored **5 junior engineers**, and streamlined incident triage, cutting **average resolution time by 35%**.
* Automated **build, test, and deployment** workflows via Azure DevOps pipelines, enabling a **3x/week deployment frequency** and reducing **deployment failures by 18%**.
* **Tech:** C#, ASP.NET, React/Angular, REST, SQL, Git, Agile/Scrum

## Education

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