

Prasad Sudhir Rane

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PROFESSIONAL SUMMARY

Seasoned .NET Developer with 10 years of experience, specializing in the design and development of scalable, resilient backend systems. I have deep expertise in **C#, ASP.NET Core, Angular (Typescript), SQL**, and **AWS cloud-native microservice** architectures, with a focus on delivering high-performance solutions. My approach is centered on writing clean, maintainable code, while collaborating effectively in an **Agile environment** with a high degree of independence.

TECHNICAL SKILLS

Languages: C#, SQL, TypeScript, JavaScript, Java, HTML, CSS/SCSS

Frameworks: Libraries: .NET 8, ASP.NET Core Web API, Entity Framework, GraphQL (Hot Chocolate), Angular 18, NgRx

Cloud & DevOps: AWS (Lambda, SQS, SNS, S3, CloudWatch), Terraform, CircleCI, GitHub Actions, Jenkins

Databases: MS SQL Server, MySQL, AWS DynamoDB (noSQL)

Testing: Jasmine, Karma, Playwright, xUnit, MSTest, Moq

Tools & Methodologies: ADO, Postman, Insomnia, Fiddler, Git, Agile/Scrum, TDD, Microservice architecture

Observability & Incident Management: Splunk, Dynatrace, PagerDuty, ServiceNow, JIRA

IDEs: Visual Studio, VS Code, JetBrains Rider, Nitro, MySQL Workbench

AI Tools & Platforms: GitHub Copilot, Claude Code, AWS Bedrock (Claude Sonnet), MCP, Generative AI Concepts

Working Knowledge: React, Python, R, Tableau

PROFESSIONAL EXPERIENCE

Rocket Mortgage / *Software Engineer* / Lake Bluff, Illinois / Jan 2023 – July 2025

- Engineered an AI-powered loan information chatbot using **Amazon Bedrock (Claude Sonnet)** and **AWS Lambda**, which orchestrated multiple existing **ASP.NET Core APIs** to process natural language queries and synthesize data
- Seamlessly integrated AI chatbot into an Angular web application, reducing manual lookup time by ~30%
- Upgraded a legacy Angular 14 application to **Angular 18**, refactoring the **TypeScript** codebase with modern Angular features such as standalone components, enhanced control flow, and zone-less change detection, significantly improving performance, maintainability, and developer productivity
- Designed normalized **SQL** database tables, wrote complex stored procedures, and integrated them into .NET applications using **Entity Framework** for efficient CRUD operations and business workflows
- Optimized the performance of the loan application processing system by implementing a new **GraphQL** query endpoint with a Hot Chocolate server, reducing over-fetching, and improving query response time by 60%
- Utilized AI tools - **GitHub Copilot** & **Claude Code** to accelerate development and improve productivity by ~20%
- Implemented messaging queue **Amazon SQS** for decoupled service communication and **Amazon SNS** for real-time event notifications, improving system resilience and asynchronous processing. This resulted in a 15% reduction in customer support inquiries and enhanced user experience
- Managed and provisioned AWS cloud infrastructure (Lambda, SQS, S3, DynamoDB) using **Terraform**, ensuring consistent and automated deployments. Integrated **CI/CD pipelines** via **CircleCI** for faster releases
- Led technical design discussions, documented architectural decisions, and delivered testable tasks with comprehensive Unit Test coverage (averaging 90%+). Led a team of 2 engineers, providing technical guidance on

architectural patterns, front-end best practices and rigorous code reviews, significantly accelerating their skill development and empowering them to contribute to complex features

- Collaborated with business analysts and vendor teams in an **Agile environment**, participating in daily standups, sprint planning, and retrospectives to align cross-functional teams on integration priorities; iteratively refined requirements and delivered scalable integration solutions within sprint cycles

London Computer Systems / *Software Developer* / *Cincinnati, Ohio* / *Dec 2019 – Jan 2023*

- Led migration of a windows desktop applications into **Angular 12** web applications, implementing TypeScript-based architecture with **RxJS** for reactive communication and **NgRx** for predictable, centralized state management.
- Architected and implemented lazy-loaded feature modules with route guards and resolvers
- Spearheaded the complete lifecycle of multiple application features, including database design (**MS SQL, MySQL**), **ASP.NET GraphQL/REST API** development
- Leveraged **Angular Material** library for faster development, consistent and responsive UI
- Built live dashboards with **SignalR** and Angular subscriptions for real-time updates
- Designed and deployed a reusable SignalR framework for the core business application, enabling real-time features like issue status updates, watch alerts, and user activity tracking, improving response times for critical alerts by 25%
- Collaborated with cross-functional teams, performed rigorous code reviews, and guided junior developers. Actively drove solution discussions and contributed to architectural decisions

EXFO Electro Optical Engineering / *Software Developer* / *Pune, India* / *Mar 2015 – Jun 2018*

- Developed **ASP.NET MVC**-based Web APIs using **TDD** and optimizing CI/CD pipelines with **Jenkins**
- Designed and implemented a custom Test Complete framework, automating 70% of UI tests. Reduced manual testing efforts by over 60%, accelerating release cycles and improving product quality
- Delivered detailed architecture mockups and functional prototypes during planning and design phases, facilitating early feedback and risk mitigation

Tanish Infotech Solutions / *Software Developer* / *Pune, India* / *Mar 2014 – Feb 2015*

- Built web and desktop applications on the **.NET** framework
- Documented software requirements through direct client engagement

EDUCATION

Masters of Science in Information Systems

University of Cincinnati / *Cincinnati, Ohio* / *Aug 2018 – Dec 2019*

Bachelors of Engineering in Electronics & Telecommunication

University of Pune / *Pune, India* / *Aug 2009 – May 2013*