

# SOUMMITH CHALLA

Kendall Park , NJ

✉ Soummithr@gmail.com [in https://www.linkedin.com/in/soummithchalla/](https://www.linkedin.com/in/soummithchalla/) +15133016821

## Summary

Senior Software Engineer with 4+ years of experience developing enterprise-level web applications using ASP.NET Core, C#, React, and Angular with expertise in microservices architecture, RESTful API development, and AWS cloud services, with expertise in building high-performance, scalable systems and optimizing enterprise applications for maximum efficiency. Proficient in SOLID principles, design patterns (Factory, Repository, Strategy), domain-driven design, Docker containerization, and database optimizations, and implementing comprehensive testing strategies with 90%+ code coverage using NUnit and TDD methodologies. Proficient in SOLID principles, design patterns (Factory, Repository, Strategy), domain-driven design, Docker containerization, and database optimization with demonstrated ability to migrate on-premise applications to AWS infrastructure, reducing operational costs by 30% and response times by 40%

## SKILLS

- **Backend Development:** ASP.NET Core, ASP.NET MVC, ASP.NET Web API, C#, Entity Framework, .NET Framework
- **Frontend Development:** React, Angular, AngularJS, JavaScript, TypeScript, HTML5, CSS3, Bootstrap
- **API & Architecture:** RESTful API Design & Development, Microservices Architecture, Domain-Driven Design (DDD), N-tier Architecture, Event-driven Architecture
- **Cloud & DevOps:** AWS (Lambda, API Gateway, S3, EC2, RDS, CodePipeline, CodeBuild), Docker, Kubernetes, CI/CD Pipelines
- **Database Technologies:** Microsoft SQL Server, PostgreSQL, MongoDB, Database Performance Optimization
- **Testing & Quality Assurance:** Unit Testing (NUnit), Integration Testing, Test-Driven Development (TDD), Code Coverage Analysis (90%+ achieved)
- **Design Patterns & Principles:** SOLID Principles, Repository Pattern, Factory Pattern, Singleton Pattern, Strategy Pattern, Dependency Injection, Observer Pattern
- **Development Tools & Practices:** Git, GitHub, GitLab, TFS, GitHub Actions, Code Reviews, Performance Optimization
- **Project Management:** Agile Scrum, SAFe, Sprint Planning, Daily Stand-ups, Backlog Refinement, Technical Leadership & Mentoring

## WORK EXPERIENCE

### STEP FOR A BETTERWORLD | *software developer*

Feb 2025 - current

- Spearhead development of enterprise-level web applications using ASP.NET Core, C#, and React, implementing SOLID principles throughout the codebase
- Engineer and deploy highly scalable RESTful APIs handling large concurrent requests with 60% uptime
- Build microservices-based solutions leveraging AWS cloud services, including Lambda, API Gateway, and S3
- Execute comprehensive testing strategies including unit tests and integration tests achieving 50%+ code coverage
- Coach junior developers on code quality standards, design patterns, and best practices
- Enhance database performance through advanced indexing and query tuning, reducing response times by 40%
- Orchestrate code reviews and technical design sessions for new features and architectural improvements.

### ITAC, University of Cincinnati | *software Engineer*

Aug 2023 - Dec 2024

- Designed scalable and maintainable architecture for the Research Tracking System (RTS) using ASP.NET Core, C#, and SQL Server
- Developed robust APIs and integrations processing data transactions daily with high reliability and performance
- Implemented domain-driven design and repository pattern to enhance code maintainability and testability
- Established coding standards and CI/CD pipeline using GitHub Actions, improving team productivity by 35%
- Leveraged Docker containers for consistent development and deployment environments
- Conducted technical interviews and onboarded new team members, providing mentorship on best practices
- Led Agile ceremonies including sprint planning, daily stand-ups, and retrospectives.

### NCR Corporation | *software Engineer - I*

Jul 2022 - Jul 2023

- Conceptualized and delivered new features for the Loyalty Promotion Engine (LPE) using ASP.NET Core, C#, and Entity Framework
- Engineered and deployed 20+ high-performance RESTful APIs for internal and external consumption
- Modernized legacy code to follow SOLID principles, improving maintainability and reducing technical debt
- Integrated comprehensive unit and integration testing, increasing code coverage from 45% to 60%
- Applied design patterns (Factory, Repository, Strategy) to solve complex business problems
- Guided junior developers through pair programming sessions and code reviews
- Transitioned on-premise applications to AWS cloud infrastructure, reducing operational costs by 30%
- Facilitated technical discussions with product owners and stakeholders to define and refine requirements.

### Bed Bath & Beyond Inc | *software Engineer*

Jan 2021 - Jun 2022

- Executed complete SDLC of Loyalty and Coupon Systems using C# .NET, ASP.NET MVC, Angular, and REST APIs in Agile Scrum methodology
- Designed RESTful APIs with ASP.NET Web API and Entity Framework for coupon validation, loyalty transactions, and third-party integrations
- Built cross-browser web applications using AngularJS, Bootstrap, and MVC pattern for promotional campaigns and customer retention
- Optimized SQL Server databases on AWS RDS for high-volume coupon processing, improving system performance by 30%
- Achieved 80% code coverage using NUnit testing framework for reliable coupon validation and loyalty algorithm accuracy
- Established CI/CD pipelines using AWS CodePipeline/CodeBuild, deployed on EC2 with Auto Scaling, and integrated services via API Gateway and Lambda functions.

## EDUCATION

---

### University of Cincinnati

*Master of Science, Information Technology*

- Coursework:** Machine Learning, Human Computer Interconnection, Principles of Cyber Security, Mobile Apps, Computer Systems

### Jawaharlal Nehru Technological University

*Bachelor of Technology, Computer Science*

- Coursework:** Data Structures, Software Engineering, Cloud Computing, Problem solving in Programming, Operating Systems

## PROJECTS

---

### Website Automation Testing | Java and Selenium

- Developed automation scripts to test adaptable applications, ensuring functionality and reliability in continuous integration environments
- Orchestrated automated test execution, managing test data efficiently for improved testing accuracy and maintainability
- Applied similar techniques that could be utilized for automated testing stations in manufacturing environments.