Senior Software Engineer
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RISH MANDVIKAR

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EMPLOYMENT

Senior Software Engineer	Experis	2018 – Current

Starbucks Reload API:
- Rebuilt Reload REST API Microservice in Cloud. $15M daily and $5B+ yearly revenue, 1M+ daily transactions, 50 peak TPS, with performance of sub 4 secs avg, 7 secs P99.
- Used Azure, C#, REST, Microservices, .Net Core, Service Fabric, NServiceBus, Cosmos DB, Event Hub, JWT, Autofac, AutoMapper, Serilog, Application Insights, NUnit, AutoFixture, Moq, Azure DevOps.
- Implemented core functionality, made critical design decisions to achieve sub 4 secs avg performance.
- Used Saga pattern for orchestrating external API calls. Used Polly policies for fault-tolerance and resiliency.
- Wrote HTTP logger to log HTTP requests and responses with PII masked for troubleshooting.
- Implemented an extensible test hooks framework using HTTP request header to simulate error scenarios.

Software Development Engineer	Stackline	2017 – 2018

Atlas:
- Ecommerce analytics platform. Used AWS, Web API, REST, C#, .Net Core, Elasticsearch, Docker, NuGet, EC2.
- Built backend API component in C# for top 5 products within brands, categories, market segments.
- Heavily used dynamically generated Elasticsearch aggregation queries with parent-child mapping.
- Achieved 5 secs page-load SLA with 2-level caching with ElastiCache for Elasticsearch index size of 250 million.
- Used Elasticsearch scroll API with HTTP chunking for large report file downloads.
- Setup CI/CD pipeline with zero downtime on AWS using Docker, ECS, EC2, CodePipeline, CloudFormation.

Senior Software Engineer	CommerceHub	2016 – 2017

Product Catalog Team, DemandStream:
- Developed components to consume merchant product feeds and showcase on product catalog website. C#, MVC, Web API, REST, .Net 4.6, Elasticsearch, AWS, MSMQ, NuGet, Git, MSTest, JSON.
- Elasticsearch POC. Designed component to push to, query from Elasticsearch using NEST library. Configured AWS stack using CloudFormation, AWS CLI. Product catalog size of 30 million and 1TB of data.
- Heavily involved in splitting the monolithic repository into components with their own NuGet packages.
- Provided design direction, performed code reviews, advocated best practices, mentored peers, Git ninja.

Software Engineer	Cigniti Inc	2008 – 2016

Houghton Mifflin Harcourt (HMH) Website Redesign:
- Rebuilt HMH website. C#, WCF, REST, .Net 4.0, Sitecore, jQuery, NUnit, Moq, Unity DI, TDD, MSMQ.
- Designed system architecture with Architect, developed prototypes, recommended tool and frameworks.
- Wrote 400+ unit and integration tests, followed TDD, used NUnit, Moq. Authored best practices documents.

GITHUB PROJECTS

- **C# Extension Methods**: Utility methods for types as Enum, IEnumerable, String, etc. C#
- **Trie**: Trie data structure implementation. C#
- **Git Shell Setup**: Git hooks system (global, local hooks), utility shell scripts, configuration for HOME dir. Shell
- **2048 Game**: Website clone of 2048 game. JavaScript, jQuery

EDUCATION

M.S. Computer Science	Southern Methodist University	2003 – 2005
B.E. Computer Engineering	Mumbai University, India	1998 – 2002

TECHNICAL SKILLS

- Languages: C#, Java, Shell, Python, jQuery, JavaScript, HTML, CSS
- Web Services, REST, .Net, ASP.NET MVC, WCF, SQL, NUnit, Entity Framework, LINQ-SQL