Mayur Mehta

SENIOR SOFTWARE ENGINEER

PROFILE

As a full-stack engineer with bunch of experience of developing SaaS applications such as integrating healthcare and Fintech, I have a deep understanding of Microsoft Tech stack, like .NET Core, C# and Angular

EDUCATIONAL HISTORY

- M.Sc. Computer Science
The University of Florida 2014-2016

- B.Sc. Computer Engineering
The University of Florida 2010-2014

SKILLS

- C#, Java, Node.js, JavaScript, Typescript, Python
- ASP.NET Core, WPF, Blazor, Web Assembly, Xamarin, Spring, Django
- MS SQL, PostgreSQL, Oracle, MongoDB, DynamoDB, Cosmos DB, Redis
- Azure, AWS
- Service Bus, App Service, Kubernetes, CI/CD, DevOps, Functions, Logic Apps, Enterprise Apps, Event Grid, Key Vault, API Management
- EC2, S3, API Gateway, Lambda, CloudWatch, CloudFormation, ETL, IAM, VPC
- React, Angular, Vue.js, Next.js, JavaScript, CSS, SASS, jQuery, Bootstrap, Material UI, Tailwind CSS
- NUnit, XUnit, MSTest, Moq
- JIRA, Trello, Kanban, Agile/Scrum

WORK EXPERIENCE

Senior Software Engineer

NES Health Service P.C   Oct 2020 – Jan 2025

- Designed and implemented 2 secure healthcare software solutions, ensuring industry standards, regulations (suchas HIPAA), and best practices transitioning VB.NET Monolithic into ASP.NET Core Microservices
- Established a robust school management platform using Node.js, Python, React, Next.js, and TypeScript in a microservices architecture, ensuring modularity, scalability, and maintainability
- Developed a comprehensive Node.js and Python backend for the admin portal and enrollment system, seamlessly integrating Vantiv and Stripe payment gateways to streamline payment processing Influenced Azure infrastructure setup with OAuth, Active Directory, Azure Functions, Logic Apps, Service Bus and
- Kubernetes Service, implementing best practices to streamline development workflows and achieve $3000 cost savings
- Employed Domain Driven Design where microservices' communication and authorization established via Azure Enterprise Apps, custom Event Grid Hooks, Vault, Azure Event Grid and Service Bus
- Built an AI based image generating SaaS platform and a Discord Bot using Python, Django, React 16, Typescript, Redis and DynamoDB using functional components and hooks by working with AI engineers
- Transitioned 2 legacy ASP.NET MVC projects into ASP.NET Core 6 Microservices, Angular frontend and event-driven architecture by working with RabbitMQ, Function Apps, Logic Apps and Application Insights
- Improved performance of on-premises Microsoft SQL server rewriting T-SQL scripts, stored procedures and utilizing Entity Framework Core 6, resulting in 10% performance upgrade
- Redefined the object relationship by Entity Framework Core and TypeORM, driving improved database interactions and enhancing overall application performance and scalability
- Created 10+ RESTful endpoints for Spring Boot backend and Oracle database by employing Hibernate as ORM
- Updated Azure DevOps pipelines using Terraform to deploy and configure Azure API Management that automatically maps to Azure Function Apps endpoints
- Introduced CI/CD pipelines with industry-standard tools such as Azure DevOps, and write unit-tests using NUnit, XUnit and Moq for ASP.NET Core 6 RESTful endpoints
- Activated the previously inactive retrospective channel within the Scrum team, enhancing team productivity and real-time communication by fostering a culture of continuous improvement and collaborative feedback

Software Engineer

NES Health Service P.C   Oct 2019 – Sep 2020

- Designed and maintained enterprise-scale business applications and software leading development of new solutions and enhancements to existing systems. Created technical documentation and UML diagrams serving 24/7 on-call basis
- Architected and maintained new modules for the client-facing portal using Angular, .NET Core, SQL Azure, and Azure App Services
- Constructed an ASP.NET MVC 4 application to automate and consolidate routine tasks leading technology migration from WPF to ASP.NET MVC for bankruptcy services provider
- Automated tasks using .Net Core, C#, and WPF/Xamarin to increase productivity by 75% and saved company $70k per year in pay and overtime wages
- Enhanced AWS ETL pipeline using Lambda triggers, Node.js, Kinesis Fire hose to get the data synced from transactional DynamoDB to Reporting MySQL database
- Architected, and developed a greenfield survey system with Blazor WebAssembly (WASM) and .NET API system to replace legacy ASP.NET MVC 4 systems, introducing a CI/CD pipeline with GitHub Actions
- Involved in designing & developing Front-End UI functionality using HTML5, CSS3, SASS, JavaScript, React, Typescript, Bootstrap and MVC 5.0 Framework
- Updated a React SaaS platform using Next.js, reached a 25% increase in user engagement by implementing SSR with SCSS, MaterialUI, Tailwind, and by creating reusable styled components, enhancing user experience
- Employed AWS Cloud specific technologies such as CloudFront, CloudFormation, CloudWatch, and DynamoDB to enhance application performance and scalability, ensuring a seamless user experience, achieving 99.9% uptime
- Incorporated Azure Service Bus queues and web jobs to pass messages between different REST web APIs to decouple to ensure scalability

Software Engineer

L3Harris Technologies   Jun 2016 – Sep 2019

- Directed backend development for 3 major projects and the reconstruction of over 5 projects using ASP.NET Core
- Implemented a RESTful architecture, driving a significant 50% reduction in communication overhead and a substantial 30% increase in development efficiency
- Built a high-performance user data handling system using ADO.NET objects, including Data Reader, Data Adapter, and Data Set, resulting in an impressive 50% increase in speed and a 50% reduction in execution time
- Led the development of a highly scalable and fault-tolerant system using AWS Lambda, achieving a remarkable 50% reduction in infrastructure costs and an impressive 70% improvement in system performance
- Demonstrated expertise in SDLC processes, spanning requirements/issue management, defect tracking, source control, build and test automation, and release management
- Collaborated with cross-functional teams, including designers, product managers, and other engineers, to incorporate customer feedback and redesign the product UI/UX, leading to a remarkable 45% boost in customer satisfaction
- Added OAuth 2 authentication on Angular application to communicate with .Net Core API using Azure AD
- Showcased proficiency in development methodologies like Agile SCRUM and Test-driven development

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