Amarnath Pamidi

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EDUCATION

University of South Florida — Tampa, FL
Masters in Computer Science; GPA: 3.56 — *August 2021 - May 2023*

Gandhi Institute of Technology and Management — Hyderabad, India
Bachelor of Technology in Computer Science; GPA: 4 — *July 2015 - April 2019*

EXPERIENCE

Elutions — Tampa, FL
Software Developer — *July 2023 - Present*

- Architected and led the execution of scalable, enterprise-level applications using C#, integrating with **ASP .Net Core**, and **SQL Server** to construct resilient and performant services, thereby enhancing backend functionality.
- Engineered a robust **ASP.Net Core** API capable of handling a substantial data influx of **40 requests per second**, that integrates a FAST API for predictive value retrieval, with 0.5% error rate ensuring seamless communication between the client and the server.
- Implemented authentication and authorization mechanisms for secure communication with APIs, such as **JWTtokens** or **OAuth2**.
- Facilitated efficient team collaboration within **Agile framework** and code maintainability by enforcing **Git strategies** with **GitHub**, conducting thorough code reviews, and standardizing the coding practices, which curbed inconsistency and non-conformity in code development.
- Optimized database performance by strategically **partitioning oversized tables** and implementing a view-based approach for data retrieval, significantly reducing query response times.
- Designed and implemented database **schemas, tables, views, stored procedures**, and **triggers** to support application requirements.
- Pioneered the implementation of **load balancing** mechanisms to the system infrastructure, enhancing system performance by optimizing resource utilization and ensuring a more resilient, scalable, and uninterrupted service.

Imperium Data — Tampa, FL
Application Developer Intern — *January 2023 - May 2023*

- Developed efficient front-end systems driving complex web applications using **React, JavaScript, NPM, HTML, CSS, and ES6**.
- Built and deployed **React** application that embeds **Power BI** into a web application allowing only **authenticated** employers to view **authorised** reports.
- Designed, developed and deployed React web applications using **AWS** services such as **EC2, S3, RDS, Elastic Load Balancer**.
- Created automated build and release **CI/CD** pipelines leveraging **Jenkins** to deploy react applications to app service and docker.
- Implemented internal dashboard in **Power BI** replacing existing premium software resulting in saving 1000's of dollars in monthly recurring expenses.

Tata Consultancy Services — Hyderabad, India
Software Engineer — *July 2019 - July 2021*

- Worked in a cross-functional hybrid team of 9 members from Microsoft and TCS to create efficient, customised web application solutions using **Angular, .NET Core, SQL, Microsoft Azure** following **Agile methodology**.
- As a UI developer, implemented several functionalities with Angular **Modules, Forms, Components, Events, Router, DOM, HTTP Request**.
- **Rest API**s were designed and developed utilizing .Net Core **MVC** Framework and incorporating C# features like Collection Framework, Exception Handling, logging, Multi-Threading, and **Entity Framework**.
- Followed Layered architecture to perform **CRUD** (Create, Read, Update, Delete) operations on ASP.NET Core Web applications, integrating POCO. Applied dependency inversion principle, DRY (Don't Repeat Yourself), **DDD (Domain Driven Design)**, **TDD (Test Driven Design)**, and various design patterns.
- Developed .Net Core components such as Controller, Validator, Resource Mapping using annotations and attributes to handle requests, created custom view templates and conducted Unit and Integration tests employing **xUnit and Mocking (Moq)**.
- Established Git repositories, built and deployed web apps in Azure leveraging **App Services, Function Apps, Azure DevOps, Key Vault, Blob storage, Azure SQL**, and streamlined the process with **CI/CD pipelines** and other essential cloud services.

- Independently orchestrated the transition of the Leaderboard application to the Azure cloud, adopting **Platform as a Service (PaaS)** model, and effectively utilizing Azure SQL, Data Factory, Azure DevOps, GitHub.
- Debugged web services by root cause analysis, addressing issues such as Error Handling and Parsing, validated solutions through testing with **Swagger, Postman**.
- Performed UI and API **performance testing**, load and **regression testing**, Identified and addressed performance issues proactively before release while determining the appropriate types of tests needed.

Actifio   Hyderabad, India
Software Engineer Intern   *April 2018 - June 2018*

- Developed an end-to-end application using **JavaScript, Angular, CSS, Java, HTML** for Robot Framework automation tool that decreases manual testing time by 15%.

SKILLS

Languages: C#, Python, Java

Web Development: JavaScript, TypeScript, HTML, CSS, XML, XSLT, JSON, NPM, ES6

Frameworks: Angular, React, ASP.NET (.NET Core, MVC) Bootstrap, ExpressJS

Databases: SQL, MySQL, PostgreSQL

Tools: Agile (scrum, kanban), Azure, AWS, IIS, MVC, SOLID, Web API, Swagger, Postman, kubernetes, Docker, Git, Github, Linux, REST API, Power BI, DAX, Pandas, Matplotlib, Numpy, Jupyter Notebook, Visual Studio, VS Code

CERTIFICATIONS

- Certified in **Microsoft Azure Fundamentals (AZ-900)**.