VAMSHIDHAR REDDY CHERUMANI

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EDUCATION

University of Memphis, Memphis, TN (August 2022 – May 2024)
Master of Computer Science, Graduate Research Assistant at UofM, GPA: 3.98
Course Work: Machine Learning, Foundations of Computing, Software Engineering, Distributed Systems, Neural Networks
Vardhaman College of Engineering, Hyderabad, TG, India (June 2017 – May 2021)
Bachelor of Technology in Electronics and Communication Engineering, GPA 3.94

TECHNICAL SKILLS

Programming Languages: C#**,** Java, Python, JavaScript**,** C++
Web Technologies: AngularJS, Bootstrap, AJAX, REST, SOAP, MVC (Model-View-Controller), Web API
.NET Technologies: .NET Core, .NET Framework, Entity Framework Core, ASP.NET, WCF (Windows Communication Foundation), ADO.NET
Databases: MySQL, SQL server, MongoDB, PostgreSQL
Tools: Git, GitHub, Postman, PyCharm, Visual Studio, VS Code
Operating Systems: Windows (7,8,10,11), Linux
Additional Skills: Desktop Application Development, Power Automate, Power BI, LINQ (Language Integrated Query), Web Sockets, STOMP (Simple Text Oriented Messaging Protocol), SOAP API

EXPERIENCE

SOFTWARE ENGINEER AT UNIVERSITY OF MEMPHIS Sep 2022 – Present

- Working as a **.Net Developer** under the supervision of Prof Kevin Berisso on **Auto Identification** projects for GS1 US and RF controls.
- Leaded development of a **Location Tagging application** that identifies and visualizes the location of all the RFID tags inside the laboratory in the range of the RFID antennas.
- This is developed by employing both **WEB API** and **STOMP** protocol to get the tag blinks from the RFC OS developed by RFC controls.
- Developed solutions for application scenarios in C#, employing **Object Oriented Programming (OOP)** concepts such as: **encapsulation, inheritance, polymorphism, and abstraction**.
- Extensively used **ADO.NET** classes and **Entity Framework** provided by the **.NET FRAMEWORK 2.0** for database connectivity.
- Took lead role in implementing **Barcode Scanner Analysis** applications. These applications are used to send the scanned data to the database, retrieve the unprocessed data and process it and save it in an excel file for simple usage of the user.
- Deployed Barcode Scanner Analysis applications, ensuring proper functionality and usability.
- Conducted post-deployment testing to validate application performance and functionality.
- Worked on **Impinj** RFID scanner making use of the Impinj SDK for .Net and developed a **Windows forms application** leveraging **.Net framework 4.8** that can be used to analyze the performance of the scanner.
- Used **MS SQL server** as database for storing the data.
- Extensively Worked on **SQL from scratch to create the database, tables, views, Stored Procedures.**

- Used **LINQ** to manipulate the data that is received from the server. This reduces the load on the application than using loops.
- Improved the analysis software by **40**% for fast and efficient analysis of the captured data from the scanners using **LINQ** and **Entity framework** by creating a **database first model** so communicating with **SQL server** is faster.

Software Engineer at MINDTREE Ltd June 2021 – July 2022

- Spearheaded the development of web applications utilizing **Web API 2**, showcasing proficiency in crafting robust and scalable solutions.
- Applied **Power Automate** to automate tasks, creating efficient flows that enhanced productivity and reduced manual efforts.
- Employed **Microsoft SQL Server** to manage and optimize the database for the web applications, ensuring data integrity and efficient retrieval.
- Leveraged **Entity Framework Core** to establish seamless connectivity between the application and the database, implementing **a code-first approach for database design**.
- Experience in working with Language Integrated Query **LINQ** especially **LINQ to Objects** and **LINQ to SQL**.
- Coded the **BUSINESS LOGIC LAYER** and **DATA ACCESS LAYER** using .NET
- Improved the data report generation page by utilizing **AJAX** for downloading excel file, by collecting filtered data from database.
- Successfully undertook a training project involving **Angular 8**, expanding skills in **front-end** technology, and enhancing the overall user experience.
- Acquired proficiency in **service fabric**, gaining insights into the threading application of server-based applications, thereby improving system efficiency.
- Proactively addressed and resolved issues in customer applications, consistently ensuring high levels of performance and user satisfaction.
- Improved the performance by **30%** by modifying the database queries, which helped in faster processing of the requested data.
- Demonstrated expertise in backend development using .Net, contributing to the core functionality of web applications.

Software Engineer at Cognizant June 2020 – June 2021

- Acquired proficiency in **Web Technology** utilizing **.Net** technology, with a focus on **.Net 4.0**, through hands-on experience in executing small-scale projects.
- Leveraged **ASP.NET** expertise to craft **dynamic and interactive web pages**, contributing to an engaging user experience.
- Implemented **FORMS-BASED AUTHENTICATION and AUTHORIZATION** to authenticate the users.
- Spearheaded the development of a comprehensive Hospital Management System using **ASP.NET Core MVC**, showcasing the ability to design and implement robust solutions.
- Expanded skill set to include front-end technologies such as **AngularJS** and **ReactJS** and demonstrated application by successfully creating and storing form data in databases using **AngularJS**.
- Cultivated valuable connections with seasoned professionals, fostering a collaborative environment and gaining insights into industry best practices.

ACADEMIC PROJECTS

RFC UM, A DESKTOP APPLICATION (WINDOWS FORMS APPLICATION)

- It is a windows form application where the background image is floor plan of the laboratory. This application is used to locate and visualize all the RFID tags in the laboratory.
- This is done by accessing the data using web Api from RFC OS which is connected to the antennas.
- This can be used in industries to track their equipment.

ONLINE BOOK STORE (WEB APPLICATION)

- Full stack Web application developed using .Net Web API.
- Front End is developed with angular 8.
- This application is useful for users to register order books, rent books and also implemented payment and checkout features.

HOSPITAL MANAGEMENT SYSTEM

• Web application developed utilizing .Net MVC framework.

• This application is useful for Hospitals to suggest doctors based on their problems.