

Sulakshana Mucheli

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PROFESSIONAL SUMMARY

Dedicated and innovative UI/UX Developer with a Master's in Computer and Information Sciences, possessing extensive experience in frontend and backend development. Adept at leveraging a broad range of technologies including AngularJS, DOTNET, and multiple programming languages such as C#, C, and C++. Demonstrated expertise in Agile Management and REST API development, focusing on enhancing user satisfaction and building high-quality web solutions. Proven track record of leading projects, implementing machine learning solutions, and conducting impactful research. Strong background in container orchestration, cloud computing, and security protocols. Passionate about continuous learning and applying emerging technologies to solve complex problems.

EDUCATION

Texas Tech University, Texas, USA

Master of Science in Computer Science, GPA: 3.7

August 2022 - May 2024

TECHNICAL SKILLS

Functional Skills:

Frontend Development: HTML5, CSS, JavaScript, AngularJS, ReactJS, Next.js

Backend Development: Node.js, Express.js, ASP.NET, DOTNET.ASP

Database Management: SQL, NoSQL, MySQL, Postgres

DevOps Tools: Docker, Kubernetes, CI/CD, PowerShell, Azure tools

API Development: REST APIs, Postman

Version Control: Git

Domain Skills:

Programming Languages: C, C++, C#, Java, Python

Agile Methodologies: Agile Management, Scrum

Cloud Computing: Microsoft Azure, AWS

Security Protocols: OAuth, Active Directory

UI/UX Design: Figma, Responsive Web Design, Dynamic Data Visualizations

Project Management: SDLC, Process Improvement, Problem-solving

CERTIFICATIONS

Udemy: [SAPERPFundamentals](#)

SAP: [SAPProfessionalFudamentals.pdf](#)

Alberta Machine Intelligence Institute(AMIL): [Machine Learning Algorithms: Supervised.pdf](#)

The Linux Foundation: [Open Source Software Development Methods.pdf](#)

LearnQuest: [Cloud Computing Basics \(Cloud 101\).pdf](#)

University of Illinois at Urbana-Champaign: [Data Visualization.pdf](#)

University of Alberta: [Object- Oriented Design.pdf](#)

University of Colorado System: [Database Management Essentials.pdf](#)

PROFESSIONAL EXPERIENCE

Web Developer II

Texas Tech University (Hospitality Services) Texas, USA

August 2022 - May 2024

- Led the design, development, and maintenance of scalable, resilient distributed systems, ensuring a seamless user experience.
- Utilized Python, C#, SQL, and NoSQL databases for backend development, enhancing system robustness and availability.
- Leveraged Docker and Kubernetes for container orchestration, optimizing deployment processes.
- Collaborated on architectural decisions, design patterns, and best practices to ensure system reliability and scalability.
- Employed Azure tools for managing operational aspects and ensuring security.
- Implemented microservices architecture and REST API development, using monitoring tools for proactive system issue resolution.
- Enhanced system security with Active Directory and OAuth protocols, integrating CI/CD pipelines with DevOps teams.
- Achieved a 40% reduction in incident response time through automated monitoring and alerting solutions.
- Increased user engagement by 20% and decreased bounce rate by 15% through front-end design enhancements.

Extern

AT&T, USA

June 2023 - July 2023

- Gained hands-on experience in Agile Management and REST API development.
- Engineered solutions for optimizing network performance and reducing latency by 20%.
- Explored cloud technologies (Azure, AWS) to architect scalable infrastructure solutions.
- Proposed and executed process improvements, boosting team productivity by 25%.
- Designed and implemented REST APIs, contributing to a 15% reduction in operational costs.

Web Development Intern

Verzeo, USA

June 2021 - August 2021

- Developed front-end designs using React, enhancing user engagement and reducing bounce rate.
- Integrated APIs into front-end frameworks, ensuring consistent functionality across platforms.
- Utilized D3.js for dynamic data visualizations, improving user understanding of complex information by 25%.
- Contributed to a 20% improvement in system functionality through seamless API integration.

PROJECTS & OUTSIDE EXPERIENCE

Full Stack Developer

Onlinepk12 Learning Platform (Texas Tech University), USA

January 2024 - May 2024

- Led the development of a learning platform using Node.js and React.js.
- Implemented responsive design and agile methodologies for iterative delivery.
- Employed DevOps practices for continuous integration and deployment.
- Enhanced platform usability, resulting in a 30% increase in user engagement.
- Reduced bounce rate by 20% through responsive design principles.

Skills: HTML5, Node.js, DOTNET.ASP

Project: <https://github.com/onlinepk12/OnlineSystemWebApp.git>

Fetching and Displaying Random Secrets Using Express and Axios

The goal of this project is to create a simple Express application that fetches random secrets from an external API and displays them on a web page. This project demonstrates the use of Express for building web servers, Axios for making HTTP requests, and EJS for rendering dynamic content.

Project: <https://github.com/SulakshanaMucheli/Secrets-Project.git>

Blog Post Management API Using Express

This project sets up a basic RESTful API using Express, allowing for the management of blog posts through various endpoints. The API supports CRUD operations, demonstrating how to handle different HTTP methods and work with request data in a Node.js environment. The in-memory data store approach simplifies the implementation and is suitable for learning and demonstration purposes.

Project: <https://github.com/SulakshanaMucheli/Blog-API-Project.git>

DotNetDependencies - Managing Database Operations with Dapper and Entity Framework

The goal of this project is to demonstrate the use of two popular data access technologies in .NET - Dapper and Entity Framework (EF) - for performing CRUD (Create, Read, Update, Delete) operations. This project showcases how to configure and utilize these technologies to interact with a SQL Server database, including reading from and writing to the database, as well as performing data serialization and deserialization.

Project: <https://github.com/SulakshanaMucheli/DotNetDependencies.git>

Building an ASP.NET Core Web API with Swagger

The aim of this project is to create a basic ASP.NET Core Web API that leverages Swagger for API documentation and provides a foundation for creating RESTful endpoints using controllers.

- ASP.NET Core: A cross-platform, high-performance framework for building modern, cloud-based, Internet-connected applications.
- Swagger / Swashbuckle: Tools for generating interactive API documentation and client libraries from API specifications.
- Controllers: To handle incoming HTTP requests and send responses in the Web API.

Project: <https://github.com/SulakshanaMucheli/DOTNET-api.git>

PUBLICATIONS

"Using Different Machine Learning-Based Algorithms on Tweets For Analyzing Women's Safety In Indian Cities":[2022-V13I388.pdf](#)