Adarsha Kiran Khadka

+14174198309 | akk26s@missouristate.edu | linkedin.com/in/adarsha | **32-adarsha.github.io**

EDUCATION

Missouri State University Aug. 2021 – Dec 2024

Bachelor's of Science in Computer Science, Minor in Mathematics *GPA - 3.85/4*

Relevant Coursework

Mobile Application Development, Software Engineering, Advance Datastructure & Algorithm, Web Development, Calculus I & II, Computer Netwrok, Operating System, Advanced Database System

EXPERIENCE

Software Engineering Intern May. 2024 – Dec 2024

OMNI RTLS *Springfield, MO*
- Developed a real-time application that tracks the movement and status of targets in real-time.
- Utilized the Google Maps API to visualize the target and create an action-driven event for reporting abnormalities
- Developed responsive web applications using **Angular** framework, **Tailwind** CSS, and **Typescript**.
- Developed and maintained **RESTful** APIs using **ASP.NET** with Entity Framework for web application backend.
- Adopted **Agile methodologies** and implemented the **MVC** architectural pattern to enhance the application's maintainability, scalability, and long-term efficiency..

Summer Research Assistant May 2024 – Aug 2024

Missouri State University *Springfield, MO*
- Applied statistical models to analyze and identify key data patterns, driving insights for research projects.
- Collected, cleaned, and preprocessed data, applying feature engineering to improve quality.
- Investigated the use of Graph Neural Networks (GNN) and Graph Attention Neural Networks (GANN) for real-time scene graph classification, exploring their potential for improving classification accuracy.

Access Technology Center - Student Worker Feb 2022 – May 2024

Missouri State University *Springfield, MO*
- Utilized the Axe (Browser Extension) to check the compliance of university web pages with Web Content Accessibility Guidelines (WCAG) 2.0.
- Supported students with special needs by resolving technical issues and enhancing technology access.
- Assisted in training new student worker on best practices for creating accessible educational content.

PROJECTS

Micro Code | *ASP.NET, Postgresql, C#, Next.js, Docker, Git , Judge0*
- Developed a full-stack online code compiler supporting five programming languages in a sandbox environment to assist teachers with coding exams.
- Utilized different open source frameworks like isolate to perform code execution.
- Used docker for containerization.

Splitter | *Android SDK , Kotlin , Firebase , Jetpack Compose, Hilt, Room, Retrofit, Coroutines*
- Developed an Android app to track and manage cost splits in real-time, helping users easily monitor shared expenses.
- Leveraged Firebase for secure authentication and database management to ensure seamless real-time synchronization.

HONORS AND CERTIFICATIONS

Machine Learning Specialization (Coursera , 2023)
Codepath Technical Interview (Codepath , 2024)

TECHNICAL SKILLS

Languages: Python, C/C++, SQL , Javascript, Typescript, HTML/CSS, Kotlin, C#.
Frameworks: React, NextJs, Django, ASP.NET, Angular.
Developer Tools: Git, Kubernetes, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse.
Libraries: Pandas, NumPy, Matplotlib, sci-kit-learn, seaborn, signalR
Software: Blender , Inkspace , Figma.