

Ahmed Muntasir Hossain

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SKILLS

- Proficient: C, C++, C#, .NET, Python, React, Next.js, HTML, CSS, JavaScript, TypeScript, SQL, MongoDB, Git, Docker
- Familiar: EJS, Bootstrap, jQuery, Express, Node.js, ReSharper, Redis, Supabase, Microsoft Azure, AWS

PROFESSIONAL EXPERIENCE

Software Development Engineer I

Jun 2023 - Present

McDonald's Corporation

Chicago, IL

- Created a plugin in .NET to asynchronously log all transactions and events which resulted in a reduced latency of 25% compared to the legacy monolithic component
- Developed a utility application in .NET to streamline local testing of the Point-of-Sale (POS), contributing to process improvement and reducing development time by 20%
- Implemented a failover mechanism for crucial plugins running in stores, reducing customer wait time by 12%
- Refactored and increased code coverage in legacy C/C++ code by 35%, enhancing maintainability and robustness
- Served as a mentor for 2 new incoming engineers, providing guidance on technical skills, onboarding processes, and project best practices to help them integrate into the team effectively

Software Engineering Intern

Jun 2022 - Aug 2022

McDonald's Corporation

Chicago, IL

- Refactored and optimized source code, achieving a 15.2% decrease in POS startup time, directly enhancing crew experience and operational efficiency
- Documented a detailed function map encompassing all startup calls, streamlining future debugging and feature development, and reducing onboarding time for new developers by 40%
- Utilized ReSharper dotTrace to profile and analyze the POS startup process, identifying and resolving critical bottlenecks

Software Engineering Intern

Nov 2020 - Jan 2021

Next Level Sports Management (NLSM)

New York, NY

- Developed the website for NLSM, a sports consulting agency, using WordPress and CSS
- Designed mobile and desktop responsive web interfaces that allowed over 30 players to join our program
- Managed development projects for multiple teams of the startup including web development, operations, & marketing resulting in a 25% increase in revenue

PERSONAL PROJECTS

Sentiment Analysis of Social Media Platform - SASM

- Developed a platform in Python where users can retrieve posts from Twitter, Reddit, and Tumblr containing a specific search term, analyze their sentiment, and visualize meaningful insights for informed decision-making
- Built a modular client-server architecture, integrating Azure Functions for RESTful HTTP triggers
- Integrated Azure Service Bus Topic to publish the posts retrieved from Twitter, Reddit, and Tumblr APIs, in an organized, efficient and reliable manner for subsequent processing and cleaning
- Designed a comprehensive data pipeline, including preprocessing, tokenization, and lemmatization
- Integrated sentiment analysis engines such as Microsoft Text Analytics, Google Cloud Natural Language API, and IBM Watson to generate sentiment scores that were then stored in MongoDB
- Developed an interactive dashboard using the Dash framework to visually present sentiment analysis insights to users

Social Friend Making Platform - Deep

- Developed a web application using React and Next.js to allow people to connect with strangers through in-person events
- Designed a RESTful backend server using .NET 8 and integrated PostgreSQL for data persistence
- Leveraged Redis for caching to optimize event and user data retrieval, improving application responsiveness
- Deployed the Next.js app using Vercel and hosted the .NET server in a containerized AWS EC2 instance
- Web Application Link: deep-mu.vercel.app

Wordle-Inspired Web Game with Discord Integration - WordCord

- Recreated the Wordle game using Next.js and integrated it with a Discord bot to allow users in a Discord server to guess words submitted by other members of the community
- GitHub Repository: github.com/muntasir-hossain314159/WordCord

EDUCATION

Bachelor of Science, Major: Computer Science | Minor: Mathematics

GPA: 3.99

University of New Haven, West Haven, CT

May 2023