

Ahmed Muntasir Hossain

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[Personal Website](#) | [LinkedIn](#) | [GitHub](#)

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 data 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 3 new incoming engineers

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

PROJECTS

Digital Order Integration

McDonald's Corporation, 2024

- Developed a high-performance, stateless plugin designed to log all button presses and transactions within the POS
- Engineered the plugin to support high data volume, ensuring robust handling of concurrent inputs and achieving a 20% increase in throughput
- Implemented asynchronous logging mechanisms to optimize response times, reducing latency by 25%
- Enhanced system reliability and scalability by decoupling event logging from core processes, promoting seamless data capture and real-time analysis

Foreign Order Entry Testing Tool

McDonald's Corporation, 2024

- Developed an application using Angular and .NET to replicate order submissions from mobile to in-store systems, facilitating end-to-end testing of the POS
- Enhanced developer experience by replacing the need for manual scripts with a user-friendly, modern UI; consequently, reducing development time by 20%
- Conducted comprehensive stress testing using JMeter, simulating high-traffic scenarios to ensure system stability and reliability under peak load conditions

Failover for Digital Transactions

McDonald's Corporation, 2024

- Implemented a feature that automatically promotes crucial backup plugins in case of failure, eliminating the need for manual intervention
- Significantly improved system reliability and ensured high availability by automating failover processes, leading to a 12% reduction in customer wait time
- Developed the necessary code in legacy C/C++ and implemented the new solution in .NET C# to modernize and replace the legacy system
- Authored complete step-by-step documentation for the initiative, referenced by 95% of the team for onboarding and troubleshooting

EDUCATION

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

University of New Haven, West Haven, CT

GPA: 3.99

May 2023