

Shoimya Chowdhury

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Software Engineer with 2+ years of experience in full-stack development, machine learning, and process automation. Proven track record of leading cross-functional teams and delivering data-driven solutions that improve operational efficiency. Recognized for technical excellence with the Rookie of the Year award.

Education

Michigan State University, College of Engineering | East Lansing, MI

Bachelor of Science, Computer Science and Engineering | August 2019 - May 2023

- **GPA:** 3.69/4.0 | **Honors:** 4x Dean's List recipient
 - **Relevant Coursework:** Software Engineering, Algorithm Engineering, Machine Learning, Full-Stack Development, Database Systems
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Certifications

Machine Learning Specialization – Stanford University / Coursera

Technical Skills

Programming Languages: Python, C++, C#, JavaScript, HTML5, CSS, SQL, VBA

Frameworks & Technologies: .NET MVC, ASP.NET Core, Flask, Docker, wxWidgets

Machine Learning: TensorFlow, Scikit-learn, Azure ML Services

Databases & Analytics: MySQL, Azure SQL, QlikSense

Tools & Platforms: Git, Power Automate, Google Cloud Platform, AutoHotKey

Development Methodologies: Agile, Object-Oriented Programming

Professional Experience

Business Technical Specialist | Raymond James Financial, Michigan - October 2023 - Present

- **Award Recognition:** Recipient of Rookie of the Year award for outstanding performance and technical contributions
- Streamlined scheduling processes by developing custom Excel VBA macros with greedy algorithms, increasing operational efficiency by 50% and significantly reducing manual errors
- Built automated Project QA database for monthly quality control sampling, improving accuracy and reducing manual effort for department leadership
- Engineered web-scraping automation using AutoHotKey to update 1,000+ securities in under one hour, dramatically improving speed and accuracy over manual processes
- Enhanced workflow software through VBA and SQL integration, accelerating report generation and delivering more actionable business insights
- Developed comprehensive QlikSense dashboards analyzing employee performance and project volumes, enabling effective management of seasonal workflow surges
- Served as department technical liaison, providing technical support and managing associate onboarding/offboarding processes

Full-Stack Developer | RPM Freight Systems, Royal Oak, MI - January 2023 - May 2023

- Led cross-functional team of 6 engineers through complete SDLC for order management system design, development, testing, and deployment
- Implemented Spectral Clustering machine learning model to optimize geographical order clustering, achieving 43% improvement in shipping efficiency and reducing per-shipment costs
- Cultivated strong client relationships through regular stakeholder meetings, ensuring requirement alignment and achieving high client satisfaction scores
- Utilized ASP.NET Core MVC, Azure Machine Learning Services, Azure SQL Database, and Scikit-learn to deliver enterprise-level solution

Web Developer and Business Analyst Intern | DataSoft Systems Bangladesh Ltd, Dhaka - June 2022 - August 2022

- Authored comprehensive business requirement documents based on UI/UX research from Dhaka and Chittagong Stock Exchanges
- Developed real-time market data extraction console application using C# and HTML Agility Pack, serving both development and business teams
- Implemented data scraping functionality with custom object storage, enabling seamless integration with trading platform displays
- Conducted thorough functional testing and generated detailed defect reports, facilitating early SDLC issue identification and resolution

Academic Projects

Hate Speech Recognition | Michigan State University - September 2022 - December 2022

- Collaborated with an engineering team to achieve 89%+ accuracy in binary hate speech classification using Scikit-learn and Google BERT models
- Trained and evaluated models on labeled datasets from hate speech forums, contributing to AI ethics research

NFT Trading Platform | Michigan State University - January 2023 - May 2023

- Engineered responsive NFT trading platform using Python Flask, Docker, MySQL, and Google Cloud Platform
- Implemented comprehensive user functionality including account management, NFT transactions, and transaction history
- Implemented simple block chain class to show history of each NFT uploaded on the platform
- Successfully load-tested platform with 200+ concurrent users, ensuring seamless transaction processing

Tweening Keyframe Animation Studio | Michigan State University - January 2022 - May 2022

- Created comprehensive animation studio using C++ and wxWidgets with keyframe-based and event-based animation capabilities
- Designed intuitive user interface allowing custom animation creation with pre-set actors, backgrounds, and items

Sparty Gnome Platform Game | Michigan State University - January 2022 - May 2022

- Collaborated with 5 engineers to develop an engaging side-scrolling platform game using C++, wxFormBuilder, and wxWidgets
 - Applied object-oriented programming principles and Git version control for efficient team collaboration
 - Delivered complete gaming experience with multiple levels, collectible items, and interactive elements
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Leadership & Achievements

- **Rookie of the Year Award** - Raymond James Financial (2024)
- **4x Dean's List** - Michigan State University (2019-2023)
- **Team Leadership** - Successfully led 6-engineer development team at RPM Freight Systems