

A S M Rizwan Chowdhury

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[LinkedIn](#) / [GitHub](#) / [Portfolio](#) /

Entry-level Software & Data Engineering student with hands-on experience building full-stack applications, machine learning models, and database-driven systems.

EDUCATION

Minnesota State University - Mankato <i>Bachelor of Science in Computer Information and Technology; Minor in Mathematics</i>	Mankato, MN May 2026
Combined BS/MS Program in Data Science <i>Master of Science in Data Science</i>	Mankato, MN Expected May 2027

EXPERIENCE

Data Science / Machine Learning Research Experience <i>Minnesota State University - Mankato</i>	Dec 2025 – Jan 2026 Mankato, MN
<ul style="list-style-type: none">Built an end-to-end credit risk prediction system using 20,000+ loan records to estimate probability of loan default.Preprocessed and engineered financial and demographic features, applying scaling and stratified train/test splitting to ensure reliable evaluation.Trained and compared Logistic Regression and Random Forest models, analyzing precision, recall, F1-score, and confusion matrix tradeoffs.Prioritized recall to reduce false-negative high-risk borrowers, aligning model evaluation with real-world financial risk costs.	
Overnight Stocker Associate <i>Walmart</i>	May 2023 – Dec 2025 Mankato, MN

PROJECTS

Rizzi Pokémon Shop — Full-Stack E-Commerce Application / <i>HTML, CSS, JavaScript, Node.js, Express, PostgreSQL, Stripe API</i>	Dec 2025
<ul style="list-style-type: none">Built a full-stack e-commerce platform with 15+ product listings, enabling end-to-end flows for product browsing, cart management, and secure checkout.Designed 10+ RESTful API endpoints with Express.js, serving dynamic products and pricing data from a PostgreSQL database.Integrated Stripe Checkout (test mode), successfully handling 100% of payment, success, and cancellation flows without errors.Implemented a persistent shopping cart with real-time price calculations, tested across 100+ cart and checkout operations with zero runtime crashes.Applied clean architecture and separation of concerns between frontend and backend, improving maintainability and reducing debugging time by ~30%.	
Retail Sales Dashboard — Data Analytics Project / <i>Power BI, Excel</i>	Jan 2026
<ul style="list-style-type: none">Cleaned and prepared retail sales data in Excel by removing duplicates, validating numeric fields, and standardizing formats across 9,900+ records.Built a two-page interactive Power BI dashboard featuring KPIs, slicers, and drill-down analysis by region, category, ship mode, and city.Designed executive-level overview and detailed breakdown views to support business decision-making.Implemented cross-filtering and dynamic visuals enabling real-time data exploration.	

TECHNICAL SKILLS

Programming Languages: Python, C#, C++, JavaScript, HTML/CSS, SQL
Frameworks & Tools: Node.js, Express.js, .NET, Unity, Unreal Engine, Flask, Git, GitHub, Visual Studio, VS Code, Jupyter Notebook, Excel, Microsoft Office
Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, Scrapy, ipykernel
Databases: MySQL, SQL Server, PostgreSQL

Skills Data Cleaning, Data Visualization, Dashboard Design, Business Intelligence (BI), KPI Development, Data Modeling, Exploratory Data Analysis (EDA), Feature Engineering, Supervised Learning, Classification, Model Evaluation, Git, GitHub

CERTIFICATES

Minnesota State University - Mankato	Markato, MN Dec 2025 Dec 2025
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ACCOMPLISHMENTS

Dean's List: Spring 2022, Fall 2023 (Top 10% of class)
Member, Alpha Lambda Delta Honor Society for Academic Excellence
Recipient, Minne Analytics and Federated Insurance Scholarships for IT