

A S M Rizwan Chowdhury

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/ [Linked In](#) / [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

Bachelor of Science in Computer Information and Technology; Minor in Mathematics

Mankato, MN

May 2026

Combined BS/MS Program in Data Science

Master of Science in Data Science

Mankato, MN

Expected May 2027

EXPERIENCE

Data Science / Machine Learning Research Experience

Dec 2025 – Jan 2026

Minnesota State University - Mankato

Mankato, MN

- 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

May 2023 – Dec 2025

Walmart

Mankato, MN

- Managed inventory restocking and organization across **15+ aisles per shift** while ensuring workflow efficiency.
- Collaborated with a **team of 10+ associates** to meet restocking goals ahead of schedule by **20%** weekly.
- Applied process optimization techniques reducing product **retrieval time by 15%**.

Crew Member

Apr 2023 – May 2023

Noodles & Company

Mankato, MN

- Delivered fast-paced service and **upheld brand quality standards** under high-volume conditions.
- Maintained strong communication with management to ensure consistent operational flow and team productivity.

PROJECTS

Rizzy Pokémon Shop — Full-Stack E-Commerce Application / HTML, CSS, JavaScript, Node.js, Express, PostgreSQL, Stripe API

Dec 2025

- 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 / Power BI, Excel

Jan 2026

- 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.

Leap of Ages / Unity, C#, Game Development

Oct 2022

- Developed a 2D platformer with progressive level difficulty, incorporating enemy AI and dynamic physics simulation.
- Optimized frame rendering, improving performance by **25 FPS** across test environments.
- Presented at CADSCOM 2022 Project Showcase; recognized for innovative level design and gameplay flow.

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

Mankato, MN

- Database Technologies Certificate
- Software Development Certificate

Dec 2025

Dec 2025

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