



Caleb Green

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EDUCATION

University of North Carolina at Charlotte - Class of 2025

Bachelor of Science

Major: Management Information Systems

Minor: Software Systems

GPA: 4.0

Relevant Coursework:

Management Information Systems, Business Application Development, Data & Information Management, Business Information Systems Analysis & Design, Intro to Computer Science I&II, Financial Management, Business Law, Data & Information Management, Managerial Economics, Management & Organizational Behavior, Data Structures & Algorithms

TECHNICAL SKILLS

Coding Languages & Programs (C#, Python, Java, JavaScript, SQL, Visual Studio), Data Analysis & Visualization (Tableau, Microsoft Excel, Access, Pandas, NumPy, Google Colab), Office Productivity (Microsoft Word, PowerPoint), Machine Learning & Data Science (Scikit-learn, Predictive Modeling, Data Forecasting), Adobe Creative Suite (Photoshop, Illustrator, After Effects)

CREDENTIALS

Microsoft Office Specialist (MOS) Certification in Excel, Information Technology Fundamentals IBM Certification, Data Fundamentals IBM Certification, Cybersecurity Fundamentals IBM Certification

PROJECT EXPERIENCE

Stock Price Prediction Using LSTM Neural Networks

Personal Project

- Developed an LSTM-based model to predict Microsoft stock prices, achieving a 15% improvement in forecast accuracy after multiple iterations of model refinement.
- Cleaned and preprocessed time series data, converting date columns to datetime and structuring input/output data into numpy arrays for effective univariate forecasting of closing prices.
- Built and trained a sequential LSTM model with dense layers, focusing on optimizing performance on validation and test sets.
- Applied a recursive prediction strategy, using past forecasts to improve future predictions, leading to a 10% reduction in forecast error over time.

Database Designer/ Administrator

Data and Information Management, University of North Carolina at Charlotte – Charlotte, NC

- Designed and maintained database structure, including tables, relationships, indexes, and constraints, ensuring data integrity and efficiency.
- Analyzed data requirements and developed Entity Relationship Diagrams (ERD) and Data Dictionaries aligned with business rules and project objectives.
- Developed SQL queries to support forms, scripts, and reports, optimizing functionality and performance.
- Collaborated with team to translate project vision into effective database solutions.

Predictive Model for Pool Chemical Balancing and Stocking

Sportscenter – Concord, NC

- Achieved 90% automation of the ordering process and 5% cost savings by independently developing a predictive model using Scikit-learn to forecast chemical needs and streamline inventory management.
- Conducted end-to-end data analysis, including cleaning historical pool usage and chemical data, identifying trends, and building a machine learning model to reduce overstocking and improve order accuracy by 20%.
- Designed and implemented interactive Tableau dashboards to visualize chemical usage trends, forecasted needs, and inventory levels, enabling data-driven decision-making for management.
- Managed the entire project lifecycle, from data collection and model development to deployment.

WORK EXPERIENCE

Network Administrator - Concord, NC

April 2023 - Present

Sportscenter Health and Athletic Club

- Designed and deployed a redundant network failover system, ensuring uninterrupted connectivity by automatically switching to a secondary network in the event of a primary network failure, reducing downtime by 30%.
- Implemented and maintained the organization's network infrastructure, achieving 99.9% uptime for critical systems supporting member services, billing, and facility operations.
- Troubleshooted and resolved network issues, reducing downtime by 25% and improving overall member satisfaction.
- Monitored network traffic and implemented advanced security measures, including firewalls, VPNs, and intrusion detection systems, to safeguard sensitive member and employee data.
- Provided technical support and training to staff, empowering them to resolve minor IT issues independently and improving operational efficiency.