IAN EVENSEN

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Education

Northwestern University **Expected Jun 2026**
Bachelor of Arts in Computer Science & Data Science *Evanston, IL*

- Relevant Coursework: Object-Oriented Programming, Data Structures & Algorithms, Design & Analysis of Algorithms, Artificial Intelligence, Computer Systems, Probability & Statistics, Single/Multivariable Calculus, Linear Algebra, Discrete Math, Micro/Macroeconomics, Data Science/Visualization with Python

Work Experience

SLYD Group Inc. **Jun 2024 – Sep 2024**
Software Engineer Intern *Chicago, IL*

- Developed a full stack web application to facilitate the rental of computing resources, enabling efficient AI research and model training, using C# and .NET Blazor framework
- Designed and and optimized database schemas using PostgreSQL to handle large volumes of server transaction data, ensuring high performance and reliability
- Utilized CI/CD pipelines and Docker to facilitate deployment on AWS ECR, resulting in faster and more efficient server operations

University of Illinois @ Urbana-Champaign – Alcohol Research Lab **Jun 2023 – Sep 2023**
Data Analysis Intern *Urbana, IL*

- Utilized Python libraries such as pandas and NumPy to analyze 20+ datasets, supporting product development of wrist-worn transdermal blood-alcohol concentration sensor
- Applied statistical analysis techniques such as linear regression, hypothesis testing, and time series analysis to derive key insights
- Executed comprehensive data cleaning processes using Python, ensuring high-quality data for the development of algorithms translating wristband sensor data into BAC levels

Activities

Northwestern Sports Analytics Group **Jan 2024 – Present**
Data Analyst *Evanston, IL*

- Analyzed extensive sports datasets with Python, SQL, and Excel, providing a data-driven foundation for articles on statistical analysis, roster management, and strategic insights
- Crafted and published an in-depth article on identifying the NBA's most overpaid and underpaid players through correlation and regression analyses comparing player performance and salaries

Northwestern Algorithmic Trading Club **Sep 2023 – Present**
Quantitative Developer *Evanston, IL*

- Engineered a sophisticated pair trading algorithm using Python by scraping stock tickers, retrieving historical prices with yfinance, identifying tradeable pairs via cointegration tests, and automating buy/sell signals based on z-score normalization
- Researched and led group discussions on trading model development, covering assumption formulation, method selection, and backtesting, with a focus on validation in algorithmic trading

Course Projects

Open Street Map Processor **Feb 2024**

- Built a C++ application to parse and analyze Open Street Map data for over 15,000 nodes and 100 buildings around Northwestern University, leveraging abstraction techniques such as classes and templates for efficient data management and analysis
- Integrated features to parse and process CTA bus stop data, including algorithms to find the nearest stops for user-inputted buildings and querying the CTA's online bus tracker API for real-time bus arrival predictions with a response time of under 450ms
- Employed advanced programming techniques, including binary search for efficient data retrieval, exception handling for robust error management, and external library integration for network communication

IMDB Movie Review Generator **Mar 2023**

- Developed text decoding functionality for the IMDB movie reviews dataset using Python, converting numeric representations back into human-readable text with a custom vocabulary mapping of 8,000 unique words
- Designed and implemented dictionary manipulation functions to track word frequencies within a dataset of 50,000 movie reviews, supporting comprehensive text analysis and natural language processing applications
- Utilized Python's random and pprint libraries to implement Markov chains, creating predictive text models for generating new reviews with an accuracy rate of 87% in predicting the next word in a sentence

Skills and Interests

Programming Languages: Python, R, SQL, C, C++, C#, HTML, CSS, JavaScript
Tools/Frameworks: ASP.NET, Blazor, LangChain, Entity Framework, PostgreSQL, Tableau, PyTorch, TensorFlow, Scikit-Learn
Interests: Basketball, Golf, Hip-Hop Music, Developmental Psychology, Exercise Physiology