Evan Edwards

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EDUCATION

University of Wisconsin - Madison Madison, WI
Bachelor of Science in Computer Science, Data Science, Statistics *May 2023 - May 2027*
Minor in Mathematics, Economic Analytics
Coursework Taken: Programming III, Introduction to Artificial Intelligence

University of Wisconsin - La Crosse La Crosse, WI
High School Special Student *September 2022 - May 2023*
Coursework Taken: Competitive Programming, Software Design II

University of Wisconsin - Madison Madison, WI
High School Special Student *May 2021 - August 2022*
Coursework Taken: Intro to Computer Engineering, Programming I

WORK EXPERIENCE

Data Services June 2020 - August 2020
Onalaska School District *Onalaska, WI*
- Installed, configured, and maintained technological infrastructure, including phone and internet networking
- Troubleshooted and physically repaired electronic devices and computers
- Provided IT support to educators and staff during the transition phase to virtual learning due to the COVID pandemic, integrating virtual learning tools and technologies

TECHNICAL EXPERIENCE

Research in Machine Learning and Bayesian Statistics | *Python, R* September 2023 - Present
- Performed Bayesian statistical analysis on the Programme for International Student Assessment (PISA) dataset
- Used Bayesian ensemble methods to improve out-of-sample predictions for multi-level regression models to obtain better predictions for use in political inference
- Utilized Python and R for the data processing, statistical modeling, and machine learning
- Collaborated with a Ph.D. student in quantitative methods to develop this research project

CNN-based Medication Classifier, 1st Place @ HackNYU 2023 | *Tensorflow.js, JavaScript* February 2023
- Placed 1st in category out of 75 teams at NYU's college hackathon, competing alone as a high-school senior
- Built a drug classifier using Convolutional Neural Networks (CNNs) in Tensorflow to identify medications and their interactions
- Hosted the JavaScript/jQuery webapp using Apache server and a WAMP stack

Algorithmic Trading Bot | *Python, scikit-learn, NumPy, QuantConnect* September 2023
- Designed and implemented a trading bot written in Python using the QuantConnect platform and the Lean Engine
- Used a custom gradient boosting ensemble machine learning model to perform regression on stock price history and make predictions to inform the trading strategy
- Performed backtesting on the platform to optimize and evaluate the algorithms

Audio Synthesizer Plugin | *C++* January 2023
- Contributed an audio synthesis plugin to the open-source VCVRack audio synthesis platform
- Accumulated 5000+ active users of the plugin
- Created an additive harmonic oscillator, a variable-response voltage controlled amplifier, and a logic module with both continuous and discrete logic circuits

TECHNICAL SKILLS

Languages: R, Python, Java, C, C++, JavaScript, HTML, CSS, Bash, Powershell
Developer Tools: Git, GitHub, Visual Studio Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Jupyter Notebooks
Libraries and Frameworks: Tensorflow, pandas, NumPy, SciPy, Matplotlib, React, scikit-learn, PyTorch, PYMC
Platforms: Firebase, AWS, Node.js, Docker