Donnell Fulwiler

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Education

St. Dominic Savio CHS — Austin, TX
High School Diploma, 98.41 *GPA* — *Aug. 2019 – May 2023*

Texas A&M University — College Station, TX
B.S. Computer Science, Statistics Minor, 3.93 *GPA, Class of 2027* — *Aug. 2023 – May 2027*

Experience

Data Science Intern (Remote) — Summer 2025
Kaizen Action LLC. — *Palo Alto, CA*

- Developed several tactical analysis algorithms and ran them on various securities. Many algorithms achieved +10% ROI.
- Used Pandas and Numpy extensively to analyze gigabytes of data.
- Used Tensorflow to create and train a hidden markov model for time series analysis.
- Used various econometric models such as GARCH, EGARCH, ARMA, and ARIMA to model volatility clustering and trends in certain securities. Certain models achieved 85% accuracy in certain binary classification tasks.

Undergraduate Research Assistant — Aug. 2025 – Present
Texas A&M University — *College Station, TX*

- Currently using CNNs and other image recognition algorithms to rapidly identify patterns and diagnostic information in bacteria.
- Working with a team of 8 as one of two machine learning experts.
- I utilize Python, Tensorflow, and Pandas on a daily basis.

CSCE 120 TA — Aug. 2025 – Present
Texas A&M University — *College Station, TX*

- Leading a lab of approximately 30 students. I give small lectures, create slides, etc. every week.
- I have helped hundreds of students debug and diagnose their C++ code.

Projects

Gjallarhorn | *C#, MS Forms* — July 2017

- Developed a Runic transcription algorithm that can translate between 3 different types of Runic alphabets.
- Can transliterate any runic inscription written between 300 AD – 1000 AD.

Neural Network from Scratch | *Numpy, Python, tensor calculus* — Feb. 2021 – Jan 2022

- Made a neural network from scratch using only self-taught tensor calculus knowledge and the NumPy Python library.
- The neural network had three layers, could recognize sinusoidal patterns in data. Trained using simple gradient descent.
- The neural network achieved 98% accuracy in its task.
- Wrote a research paper on the project. Got featured in school newsletter and almost published.

Interactive x86 Tutorial | *Git, Github, React, x86 Assembly, MySQL* — Sep. 2025 – Present

- Me and my friend Niel are currently working on an interactive, online, gamified x86 tutorial.
- Frontend is React based. Version control using Git. User data will be stored in a MySQL database.
- The goal is to make learning x86 assembly engaging, fun, and easy.
- Currently teaching x86 assembly in Intel syntax only.

Technical Skills

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, R, C#, Haskell, Bash
Frameworks: React, Node.js, Vite
Developer Tools: Git, VS Code, Visual Studio, IntelliJ, Vim, Neovim, Linux
Libraries: Pandas, NumPy, Matplotlib, Tensorflow, Keras, Pandas, Sqlite, Selenium, Playwright
Skills: Machine Learning, AI, NLP, Regression, Classification, Web Scraping, Data Science