## **Barry Daemi**

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Portfolio Website: https://www.barry-daemi.com	<u>m/</u>
EDUCATION	Dellas TV
Southern Methodist University	Dallas, TX Dec 2022
Dedman College of Humanities & Sciences  Master of Science in Computation and Applied Mathematics	Dec 2022
	May 2020
Bachelor of Science in Computation and Applied Mathematics with Departmental Distinction Honor	May 2020
Bachelor of Arts in Economics with a specialization in Econometrics	May 2020
with Departmental Distinction Honor	Way 2020
SKILLS	
Computer: Python, MATLAB, R, Microsoft Office, SAS, SQL (Structured Query Langu Mathematics & Economics: Numerical Linear Algebra, Multivariate Stats, Multivariate Linear Models, Neural Networks, Mathematical and Statistical Algorithms, Econometrics Iterative Methods.	Calculus, ODEs, PDEs, General
EXPERIENCE	
Collin College	Plano, TX
Temp-Full-Time Dual-Credit Professor of Mathematics	January 2024-May 2024
Adjunct Professor of Mathematics	August 2023-December 2023
<ul> <li>Teaching: MATH 1314: College Algebra, MATH 0405: Foundation Math MATH 1342: Intro. to Statistics</li> </ul>	h; MATH 2412: Pre-Calculus;
Ally Financial	Lewisville, TX
Data Science Intern	May 2022-August 2022
<ul> <li>Developed a machine learning model in Python that considered customer treatment.</li> <li>The new model reduced operational expenses by replacing 23,605 manual collectors with Automated voice mail.</li> <li>Due to the models' performance, Ally Financial proceeded with acquisition machine learning collection models.</li> <li>Created training, testing and validation datasets in SAS, cleaned and form Skills: Python, SAS, Statsmodels, Pandas, Scikit-learn, Numpy, General Line</li> </ul>	on of Dasceq Inc. supervised
Southern Methodist University	Dallas, TX
Student-Worker: Math and Eco Tutor at The Altshuler-LEC	February 2020-May 2023
<ul> <li>Coordinated walk-in appointments for Mathematics and Economics, as wappointments in MATLAB and R, specifically for homework and project PUBLICATIONS AND PROJECTS</li> </ul>	
European Option Pricing Web Application	2024
<ul> <li>https://www.barry-daemi.com/Pricing Option App</li> </ul>	
Explanation of Black-Scholes-Merton Model in Option Pricing	2024
<ul> <li>https://www.barry-daemi.com/Pricing Option App/BlackScholesModelExpl</li> </ul>	<u>ained</u>
Statsmodel's OLS compared to Linear Least Squares via QR Decomposition	2023
<ul> <li>https://www.barry-daemi.com/statsmodels_ols_compared_to_least_square</li> </ul>	s via gr decomposition
Monte Carlo Methods to Simulate a Stock Portfolio	2023
<ul> <li>https://www.barry-daemi.com/monte_carlo_method_to_simulate_stock_po</li> </ul>	<u>ortfolio</u>
Data Exploration of Simulated Data with Microsoft Excel	2023
<ul> <li>https://www.barry-daemi.com/Data Exploration of simulated Data with</li> </ul>	Microsift Excel2
Neural Network Development with Micrograd Package	2023
• https://www.barry-daemi.com/neural%20network%20development%20with%20mica	rograd%20package
Simulation Exercise – (Data Science) Job Demonstration	2022

**ORGANIZATIONS & HONORS** 

https://www.barry-daemi.com/simulation exercise job demonstration