Pat Caughey

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Education

Stanford University – BS in Computer Science   Expected June 2026
- Concentration in Artificial Intelligence

Experience

AI Research Intern, Go For Vertical – Tucson, AZ   July 2024 – Present
- Develop and integrate an AI chatbot for the Basecamp, Climb, and Summit Accelerator programs, ensuring accuracy through model training and rigorous testing
- Improve revenue scaling and acquisition potential for startup companies by refactoring operations to promote hyper-efficient resource utilization, resulting in maximized operational performance
- Conduct research on relevant and emerging AI technologies, presenting findings to optimize business function and drive innovation in startup companies

Cardiovascular Surgery Research Intern, Stanford Aortic Laboratory – Palo Alto, CA   June 2023 – August 2023
- Contributed to groundbreaking research under Dr. Michael Fischbein working to advance the understanding of molecular mechanisms of aortic aneurysm formation, with particular interest in Marfan Syndrome patients
- Extracted and analyzed mass spectrometry datasets from critical cardiovascular tissue using Python, leading to the identification of 3 key biomarkers crucial for understanding Marfan Syndrome
- Employed the SciPy and Pandas libraries to translate proteomic data into readable results, thereby advancing surgeons' practical understanding and enhancing their clinical decision making

Business Analyst Intern, Bestway Trucking – Fairfield, NJ   June 2020 – June 2022
- Conducted market analysis and identified untapped segments for business growth, leading to inter-state route expansion and increased competitiveness
- Led numerous projects including the research, identification, and implementation of new software to increase efficiency and profitability
- Prepared and evaluated bills for accounts receivable using Microsoft Excel resulting in an increasingly organized database of client information

STEM Tutor, Delbarton School – Morristown, NJ   May 2020 – July 2022
- Mentored and instructed youth aged 7-14 through a program of accelerated technology and math

Skills

Languages: C, C++, Python

Leadership/Awards

New Jersey Athlete of the Year   2022
- Awarded the prestigious Maxwell NJ Player of the Year Award: selected as the sole recipient after a thorough review of over 20,000 athletes statewide
- Recognized for demonstrating exceptional leadership and a commitment to service as well as athletic ability

Stanford Varsity Football   2022 – 2024
- Planned and managed a 25 hour per week athletic calendar with a rigorous academic course load
- Recruited over 40 new players and furthered community support through service events
- Attended meetings and organized practice and meeting times in lieu of coaching staff