Brendan Barnett
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EDUCATION

University of Connecticut, Storrs, CT May 2025
Bachelor of Science in Engineering
Major in Computer Science and Engineering: Concentration in Computational Data Analytics
Minors in Mathematics, Entrepreneurship
GPA 3.95/4.00
Honors Scholar
Relevant Coursework: Data Structures and Object-Oriented Design, Systems Programming, Algorithms and Complexity, Math for Machine Learning, Linear Algebra, Calculus I-IV, Foundations of Venture Capital

SKILLS

Computer Languages: Python, C, C++, HTML/CSS/JavaScript, Java
Libraries and Frameworks: React.js, PyTorch, NumPy, Pandas, Matplotlib, Turtle Graphics, POSIX Threads
Collaboration and Productivity: Git/GitHub, Jira, Confluence, Microsoft Excel, Google Sheets
Bloomberg Certificates: Market Concepts, Finance Fundamentals, Environmental Social Governance
Languages: English (Fluent), Spanish (AAPPL Seal of Biliteracy)

WORK EXPERIENCE

AI Research Assistant, *UConn School of Computing*, Storrs, CT October 2023 - Present
- Explore deep learning neural networks, with particular interest in continual graph learning, under the guidance of Dr. Dongjin Song to discover and advance practical business applications

Team Lead, *UConn Technology Support Center,* Storrs, CT December 2023 - Present
- Manage the Device Support team, spearheading transformative efforts to redefine and enrich workplace culture, fostering teamwork to optimize customer experience and increase productivity
- Effectively communicate technical issues to individuals with varying technical expertise, simplifying complex concepts without compromising accuracy to achieve complete transparency

Website Developer, *Freelance*, Hamden, CT January 2024 - Present
- Craft elegant, intuitive websites tailored for small and medium-sized businesses across Connecticut

Technical Specialist, *UConn Technology Support Center*, Storrs, CT February 2023 - December 2023
- Repaired computer hardware, troubleshot software, and maintained the inventory and policy compliance of 1000+ university devices via precise documentation to streamline device repair and loaner procedures

PROJECTS

Portfolio Website, *Independent Project*, Hamden, CT December 2023 - January 2024
- Designed and developed a website responsive for all screen sizes by synthesizing JavaScript, HTML, CSS, and Git to display some of my projects

Multithreaded DVR Protocol, *Honors Project*, Storrs, CT November 2023 - December 2023
- Created a self-adjusting Distance Vector Routing protocol in C utilizing the Bellman-Ford algorithm, optimizing its performance with multithreading to achieve an average runtime of 39 μs per relaxation

Supervised Learning Linear Regression, *Independent Project,* Storrs, CT October 2023 - October 2023
- Derived and implemented a supervised machine learning linear regression model using PyTorch and NumPy, employing stochastic gradient descent to minimize the mean squared error
- Administered exhaustive training and testing procedures to ensure accurate and reliable performance

Blockchain Emulation, *Independent Project,* Storrs, CT April 2023 - April 2023
- Built and tested a blockchain in Python by constructing and employing a hashmap to protect and legitimize the transactions of a cryptocurrency imitation

VOLUNTEER EXPERIENCE

Youth Basketball Coach, *St. Rita School*, Hamden, CT November 2019 - Present
- Lead practices and coach games during the basketball season