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

Programming Languages: Python, C, C++, Java, JavaScript
Technical Proficiencies: HTML, CSS, Git, React.js, NumPy, Pandas, PyTorch, Turtle Graphics, POSIX Threads
Productivity Software: 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*, Storrs, 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
- Developed a self-adjusting Distance Vector Routing protocol in C utilizing the Bellman-Ford algorithm, optimizing its performance with multithreading to achieve a runtime of 39 μs per relaxation

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

Blockchain Emulation, *Independent Project,* Storrs, CT   April 2023 - April 2023
- Constructed and tested a blockchain in Python by constructing and utilizing 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 coached games during the basketball season