

# 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, troubleshooted 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

- 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  $\mu$ s 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