

Brendan Barnett

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EDUCATION

University of Connecticut <i>M.S. in Computer Science and Engineering</i>	Storrs, CT May 2026
University of Connecticut <i>B.S.E. in Computer Science and Engineering: Computational Data Analytics</i> Minors in Mathematics, Entrepreneurship GPA 3.96/4.00 Honors Scholar, 2024 Babbidge Scholar, Werth Innovators Fellow <i>Coursework:</i> Big Data Analytics (M.S.), Machine Learning (M.S.), Data Mining (M.S.), Algorithms, Venture Capital, Object-Oriented Design, Data Structures, Cybersecurity Lab, Probability, Venture Analysis, Systems Programming (TA)	Storrs, CT May 2025

SKILLS & CERTIFICATIONS

Computer Languages: Python, C++, C, C#, JavaScript/TypeScript, HTML/CSS, SQL, Perl, Java, RISC-V Assembly
Libraries & Frameworks: React.js, Node.js, .NET, PyTorch, Scikit-learn, Keras, TensorFlow, Flask, TA-Lib
Tools: Git/GitHub, Azure DevOps, Jira, Visual Studio, VS Code, Eclipse, Microsoft Excel, Google Sheets
Bloomberg Certificates: Market Concepts, Finance Fundamentals, Environmental Social Governance

EXPERIENCE

Software Engineer Intern <i>Bentley Systems</i> <ul style="list-style-type: none">- Developing OpenFlows WaterSight, a digital twin software, empowering data-driven infrastructure optimization	May 2024 - Present Watertown, CT
Artificial Intelligence Research Assistant <i>UConn Data Science and Intelligent Systems Lab</i> <ul style="list-style-type: none">- Spearhead development of a novel social network connection recommendation system to maximize engagement- Leverage continual graph learning to maintain model accuracy in dynamically evolving data environments	October 2023 - Present Storrs, CT
Analyst <i>Hillside Ventures</i> <ul style="list-style-type: none">- Conduct due diligence on Pre-Seed to Series A startups for UConn's \$1mm student-run venture capital fund- Curate investment opportunities by networking with VCs and founders to enhance deal flow	March 2024 - Present Storrs, CT
Founder <i>Green Elm Web Solutions</i> <ul style="list-style-type: none">- Design and develop websites for startups and small businesses across Connecticut- Foster client relationships through compelling storytelling to fuel business growth	December 2023 - Present Hamden, CT
Team Lead <i>UConn Information Technology Services</i> <ul style="list-style-type: none">- Reduced service time by 48% by deploying and maintaining automated workflows via Jira- Built cohesive teams through dynamic, group-based training to enhance customer service quality	February 2023 - May 2024 Storrs, CT

PROJECTS

Technical Trading Algorithm <i>TA-Lib, YFinance, Technical Indicators</i> <ul style="list-style-type: none">- Beat the S&P 500 by 24.97% over 3 years by developing an algorithm that trades VOO, an S&P 500 ETF- Triggered trades by automating analysis of technical indicators including RSI, Bollinger Bands, and MACD
Blockchain Emulation <i>Abstract Data Types, Unit Testing, Python</i> <ul style="list-style-type: none">- Constructed a blockchain to legitimize and protect the transactions of a cryptocurrency imitation
AI Stock Price Predictor <i>Keras, Scikit-learn, NumPy, Pandas</i> <ul style="list-style-type: none">- Constructed and presented a neural network that forecasts the price of any PLC with an MSE of 0.002- Automated data processing with scikit-learn to streamline analysis and eliminate user error
Multithreaded DVR Protocol <i>POSIX Threads</i> <ul style="list-style-type: none">- Developed a self-adjusting distance vector routing protocol, optimizing runtime to 39 μs per relaxation