Brendan Barnett

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EDUCATION

University of Connecticut Storrs, CT
M.S. in Computer Science and Engineering *May 2026*

University of Connecticut Storrs, CT
B.S.E. in Computer Science and Engineering: Computational Data Analytics *May 2025*
Minors in Mathematics, Entrepreneurship
GPA 3.96/4.00
Honors Scholar, 2024 Babbidge Scholar, Werth Innovators Fellow
Coursework: 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)

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 May 2024 - Present
Bentley Systems *Watertown, CT*
- Developing OpenFlows WaterSight, a digital twin software, empowering data-driven infrastructure optimization

Artificial Intelligence Research Assistant October 2023 - Present
UConn Data Science and Intelligent Systems Lab *Storrs, CT*
- 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

Analyst March 2024 - Present
Hillside Ventures *Storrs, CT*
- 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

Founder December 2023 - Present
Green Elm Web Solutions *Hamden, CT*
- Design and develop websites for startups and small businesses across Connecticut
- Foster client relationships through compelling storytelling to fuel business growth

Team Lead February 2023 - May 2024
UConn Information Technology Services *Storrs, CT*
- 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

PROJECTS

Technical Trading Algorithm | *TA-Lib, YFinance, Technical Indicators*
- 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 | *Abstract Data Types, Unit Testing, Python*
- Constructed a blockchain to legitimize and protect the transactions of a cryptocurrency imitation

AI Stock Price Predictor | *Keras, Scikit-learn, NumPy, Pandas*
- Built 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 | *POSIX Threads*
- Developed a self-adjusting distance vector routing protocol, optimizing runtime to 39 μs per relaxation