

Brendan J. Bennett

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EDUCATION

University of Virginia

B.A. Computer Science, B.A. Statistics

Relevant Coursework: Machine Learning, Database Systems, Time Series Analysis, Business Analytics

Charlottesville, VA

August 2019 – May 2023

EXPERIENCE

Moody's Corporation

New York, NY

Software Engineer: New Frontiers Squad

August 2025 – Present

- Developed agentic workflows for prospective clients in the private credit space
- Integrated Moody's MCP servers into a chatbot via a secure Go reverse proxy, removing technical complexity and enabling teams to access data through simple chat prompts
- Work spans React/TypeScript, Python/FastAPI, Go/Fiber, AWS (Lambda, ECS/Fargate), PostgreSQL, DynamoDB, and LLM APIs (OpenAI, Bedrock, Gemini, Azure Doc Intelligence)

Software Engineer: Copilot Team

August 2024 – August 2025

- Maintained an internal AI platform that enabled employees to access complex data and tools through simple natural-language chat interactions
- Built Moody's first intent-detection system using LangGraph, adding tool calling, database persistence, and human-in-the-loop review
- Worked across Angular/TypeScript, Python/FastAPI, PostgreSQL, and LangGraph

Software Engineer: Commercial Real Estate Team

February 2024 – August 2024

- Enhanced data visualization platform serving market insights for 7M+ U.S. commercial properties
- Expanded component library with interactive data tables and charts
- Refactored dbt models to simplify table structures and optimize transformations, improving data quality and processing speed
- Used React, Storybook, AG Grid, dbt, PostgreSQL

Software Engineer: Structured Finance Team

August 2023 – February 2024

- Maintained analytical tools for mortgage-backed securities analysis
- Built features using C#, Windows Forms, and SQL

PROJECTS

Financial Dashboard App

- Built responsive web dashboard displaying real-time market data and company financial statements
- Implemented portfolio management features including automated re-balancing and risk analysis
- Applied machine learning to forecast investment returns and suggest portfolio adjustments

Handwritten Digit Recognition App

- Trained an AI model to recognize handwritten digits
- Created web application where users draw digits and receive instant predictions
- Runs entirely in browser without requiring server, no data leaves user's device

Personal Portfolio Website

- Designed and deployed professional portfolio website showcasing projects and experience

TECHNICAL SKILLS

Languages: Python, TypeScript, C#, SQL, Go

Frameworks / Tools: React, Angular, Node.js, Next.js, LangChain, LangGraph, Storybook, AG Grid

Other: Git, Docker, dbt, FastAPI, Express, PostgreSQL, DynamoDB

Focus Areas: AI/ML Applications, LLM Integrations, Data Visualization, MCP

CERTIFICATIONS

Microsoft Azure Fundamentals - November 2024

AWS Certified Cloud Practitioner - December 2023