

Blake Moody

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Seeking Full-time Opportunities

Education

UMass Boston, CS BS, Japanese (Minor), GPA: 3.93

Boston, MA (5.2026)

Technical Skills

- **Programming Languages:** Mojo, Python, JavaScript, TypeScript, Java, C, Rust, SQL
- **Frameworks/Libraries:** NextJS, NumPy, PyTorch, Langchain, WebGL
- **Development Tools:** Hugging Face, Anaconda, Cuda, Postman, Oracle, Snowflake, MS Azure, Fivetran
- **Models:** GPT, BERT, LLaMa 3.1, Mamba
- **Certifications:** CompTIA ITF+, OSHA 10-Hour, MTA 98-381, MTA 98-366, MTA 98-349, MTA 98-383

Projects

Virtual Academic Advisor

Boston, MA (12.2024 - Present)

- Web app designed to effectively assist students in planning their future coursework online
- Created a [Next JS](#) Typescript web application with a [Langchain](#) RAG pipeline, integrating the UMB Book Store/Follet, RateMyProfessor, Google Calendar, and other school-related documents

ML Multidimensional Snake ([Repo](#))

Boston, MA (1.2023 - Present)

- Used [Mojo](#) to develop efficient training environment for simulating game agents to play the game snake
- Implemented [genetic learning algorithm](#), teaching an AI to collect fruit while navigating higher dimensions
- Used barebones [Pytorch](#) and Numpy to build high performance machine learning algorithms from scratch
- Final project submission utilizing WebGL for my Graphics CS Elective (CS460)

Shakespeare Custom Language Model ([Repo](#))

Boston, MA (9.2024 - 11/2024)

- Built a [generative pre-trained transformer](#) (GPT) language model from the ground up using minimal libraries, like Pytorch
- Trained on large corpus of Shakespeare text to mimic old-style dialogue

Experience

Software Engineer Intern: Investor Data

Boston, MA (1.2025 - Present)

Transformation and Migration

- Focused on developing technologies to migrate existing on-site Oracle databases to cloud-based database solutions such as [Snowflake](#) and [Azure Data Lake Storage](#) (ADLS)
- Designed and tested novel solutions to parsing and transforming raw client/investor data for sales teams
- Participated in bi-weekly SCRUM sprints, working alongside a 100+ person development team

AI/LLM Research Fellow (mpsyach.org)

Boston, MA (9.2024 - Present)

- Independent but supervised, for-credit study on LLMs (CS478), their architecture and safety/security
- Studied the transformer architecture and popular predecessors like recurrent neural networks
- Final project was a fully-functioning transformer language model to generate english texts

Campus Involvement

IT Executive Council Student Leader

Boston, MA (9.2024 - Present)

CS Department Council

Boston, MA (6.2022 - Present)

CS Club Leader & Hackathon Organizer

Boston, MA (2.2022 - Present)