

Axusmawe A. ASMELASH

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EDUCATION

Boston University — College of Arts & Sciences

SEPT 2021 - MAY 2025

Bachelor's in Political Science, Minor in Data Science

- **Relevant Coursework:** Data Structures & Algorithms, Machine Learning and A.I., Machine Learning in Rust & Python
- **Awards:** Deans List (2022-2024), QuestBridge Scholar, Foreign Language Academic Fellowship (Amharic)

SKILLS

- **Languages:** Python (*Pandas, Django, PyTorch*), JavaScript (*React, Angular, NodeJS*), TypeScript, Oracle SQL
- **Technical Tools:** AWS, Tableau, Figma, Docker, Redis, Git, Microsoft Suite, Excel, VMware

WORK EXPERIENCE

Dimensional Fund Advisors — Software Engineering Intern

JUNE 2024 - AUG 2024

- Built Asset Database, a real-time data management system for 10,000+ desktops & servers with Python, **Django**, and SQL
- Reduced security anomaly analysis time by 67% by centralizing asset info using **TypeScript** and Angular GUI
- Accelerated software adoption by upper-management team by deploying intern project in Docker & Redis

Boston University Spark! — Software Engineer 🔗

OCT 2023 - MAY 2024

- Partnered with 8 software engineers and 3 designers to design 4 web applications for institutions in Boston
- Led development of District 7, a bulletin board app for city of Boston in Figma, ReactJs, and JavaScript
- Engineered 5 high quality and reusable web components applying **ReactJs** and Storybook for clients website expansion

Dimensional Fund Advisors — Project Management Intern

JUNE 2023 - AUG 2023

- Contributed to Dimensional.com, a core product for clients to access financial portfolios and interface with PMs
- Integrated accessibility considerations earlier in design workflows for a global website overhaul across 12 countries
- Generated a web scraper which scanned 120 links for accessibility issues employing Python, **NodeJS**, and Google API

TECHNICAL PROJECTS

Global Energy Sources — Tableau Dashboard [Github](#)

AUG 2024 - PRESENT

- Created a digital dashboard tracking 580 million terajoules of energy consumption habits across 195 countries using **Tableau**

A.I. Song Generation — HackMIT Project

SEP 2024 - SEP 2024

- Coordinated machine learning integration for a A.I. to generate songs based on **natural language prompts**
- Utilized PyTorch, Tensorflow, and Librosa to analyze spectrograms and generate music

Turning Music into Math — Machine Learning Classifier [Github](#)

JUNE 2023 - JAN 2024

- Crafted a song similarity algorithm to pair songs together for seamless transitions using **PyTorch's** machine learning library
- Engineered a Python script to analyze song features using Seaborn, **Scikit-Learn**, and Pandas

Pure Breath — HackHarvard Project

SEP 2023 - SEP 2023

- Produced a risk-point algorithm for users with respiratory illnesses, coding in Python to analyze air pollutants

LEADERSHIP

Unity and Social Quality Initiative (Startup) — Cofounder

AUG 2022 - PRESENT

- Pitched Oasis, a digital mental wellness app to secure \$250 in funding and mentorship from Innovate BU's Incubator Program
- Drove user acquisition for a rate-my-dorm website through effective marketing on Canva growing active users by 2x

Black Student Union — Executive Planning Committee

OCT 2022 - JAN 2024

- Forged partnerships with all 12 African and African American clubs on campus, resulting in 8 collaboration events
- Facilitated communication with UMOJA's 30+ group members to book events and allocate \$20,000 in club funding

PROFESSIONAL DEVELOPMENT

Seizing Every Opportunity (SEO) — Financial Services Track

OCT 2022 - MAY 2025

- Received mentorship from a career coach, dedicated training sessions, and networking opportunities with industry professionals

QuestBridge — Fellow

OCT 2022 - OCT 2023

- One of 16 of 2,000+ applicants recognized for academic achievement to receive year long training and mentorship

Jopwell I+D — Attendee

AUG 2022 - AUG 2022

- Selected from over 600 candidates fly to NYC to network with recruiters from BlackRock, Goldman Sachs, and UBS