

# 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 (*PyTorch, Django, Flask*), JavaScript (*React, Angular*), 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! — Frontend Designer** 🔄

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 — User Experience 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 renewable energy consumption across world through **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 by applying Spotify API data
- 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

**Jopwell I+D — Attendee**

AUG 2022 - AUG 2024

- Selected from over 600 candidates to be flown to NYC to network with recruiters from BlackRock, Goldman Sachs, and UBS
- Experience leadership development workshops and mentorship from industry professionals in finance and tech

**QuestBridge — Fellow**

OCT 2022 - OCT 2023

- One of 16 from 2,000+ applicants to receive year long training and mentorship from industry professionals
- Attended bi-weekly seminars alongside 15 on topics such as persona finance, resume building, and career developemnt