

# Axusmawe A. ASMELASH

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## EDUCATION

**Data Science & Political Science — *Bachelor of Science*** EXPECTED GRADUATION - MAY 2025  
Center for Data Science & College of Arts and Science  
Boston University, Boston, MA

- **Relevant Coursework:** Data Structures & Algorithms, Fundamentals of Computer Science, Machine Learning and A.I., Linear Programming, Linear Algebra, Machine Learning in Rust & Python, Introduction to Computing

## 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 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

**HackMIT — *Generify*** SEP 2024 - SEP 2024

- Led machine learning integration for a A.I. to generate songs based on natural language prompts and user preferences

**Passion Project — *Random Forest Classifier*** JUNE 2023 - JAN 2024

- Crafted a song similarity algorithm to pair songs together for seamless transitions by applying Spotify API data

**HackHarvard — *Pure Breath*** 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

## ACHIEVEMENTS

- Jopwell I+D Candidate | *Selected from 600+ candidates*
- Boston University Scholarship | *Awarded*
- Dean's List, College of Arts and Sciences | *2x recipient*
- QuestBridge Fellow & QuestBridge Scholar | *Selected 16 from 2,000+ applicants*
- Federal Foreign Language Academic Fellowship | *Awarded to 15 from 1,500+ applicants*

## SKILLS

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