

Obademilade ([Demi](#)) Fashemo

Philadelphia, PA

(469)664-9132

dfashemo@seas.upenn.edu

[LinkedIn](#)

[Github](#)

EDUCATION

University of Pennsylvania | School of Engineering and Applied Science

May 2027

Candidate for Bachelor of Science in Engineering

Philadelphia, PA

Major in Networked & Social Systems Engineering, Minors in Engineering Entrepreneurship and Mathematics

**Networked & Social Systems Engineering is a specialized degree that combines Computer Science, Economics, and Network Theory.*

Relevant Coursework: Programming Languages & Techniques I & II | Market and Social Systems on the Internet | Engineering Entrepreneurship I | Scalable & Cloud Computing | Probability | Linear Optimization | Microeconomics | Algorithms | Mathematical Foundations of Computer Science

GPA: 3.2/4.0

**yearly GPA avg improved from 2.9 -> 3.6 between freshman and sophomore years*

TECH & ANALYTICAL TOOLKIT

- **Programming Languages:** Java | Python | JavaScript | SQL | OCaml
- **Frameworks & Tools:** Flask | React | Node.js | GitHub Actions | Click
- **Cloud & DBs:** AWS (EC2, S3) | MySQL | DynamoDB | **Data Analysis & Product:** Pandas | NumPy | Figma | Jira | Notion

SOFTWARE & PRODUCT EXPERIENCE

Sponsors for Educational Opportunity (SEO) | Tech Developer Intern

May 2025 – Present

- Build full-stack features in Flask, MySQL, and React to streamline workflows and integrate external APIs for real-world data use.
- Lead Agile planning to align features with user needs and ensure timely delivery of core functionality.
- Configure GitHub Actions CI/CD pipelines, for builds, linting, and tests to catch integration issues early and speed releases.

Curious Cardinals | Mentor

April 2025 – Present

- Mentor K-12 students through customized, project-based learning experiences in product design, AI, and software development, managing project timelines as they build portfolios and master technical tools.

CycleBar | Customer Experience Specialist; Salesperson

April 2023 – August 2023

- Maximized revenue by selling 20+ memberships per month and company-brand retail items through cold-calling and implementing social media marketing campaigns.
- Developed strong client engagement skills through managing customer inquiries regarding account information and scheduling.

Code Ninjas | Coding Teacher

October 2021 – January 2023

- Taught Java, Python, and C++ fundamentals in coding curriculum to students aged 5-14.
- Developed lesson plans to guide students through coding challenges and live debugging sessions to reinforce problem-solving.

SELECTED ANALYTICAL PROJECTS

EchoNote

July 2025 – July 2025

- Built web-hosted task manager app, implementing UI with audio controls that record user speech, stream it to Google STT for real-time transcription, and render editable task items.
- Led full-stack integration of Google Speech to Text API and Gemini parser, enabling seamless audio-based task creation.

React Weather App

July 2025 – July 2025

- Built single-page React app that fetches weather data and renders a 5-day forecast for any city or the user's current location.
- Implemented client-side caching strategy cutting external calls 80% and keeping usage below Google API free tier limit.

BookBase – Reading List Management CLI Tool

July 2025 – July 2025

- Developed CLI tool using Python Click library with Google Books API and GenAI for search and instant book summaries.
- Designed and managed SQLite backend to support full CRUD (add, list, update-status, delete) of a personal reading list.

InstaLite – Social Media Platform Development

April 2025 – April 2025

- Built secure user auth, image uploads, and facial-matching search via ChromaDB in a full-stack mock Instagram clone.
- Led design and implementation of real-time WebSocket chat, defining product specs and message latency metrics.

United to Learn

April 2022 – October 2022

- Collaborated with nonprofit to define stakeholder goals/needs for addressing teacher inconsistency in underfunded Dallas schools.
- Developed bilingual web curriculum resource – curating Spanish and English videos and designing intuitive navigation – and piloted it in 12 partner elementary schools, gathering feedback to refine content.

LEADERSHIP & EXTRACURRICULARS

Underrepresented Students Advisory Board in Engineering | Board Member

September 2023 – May 2024

- Planned and executed 10 mixers and career panels per semester (avg. 25 attendees), securing enthusiastic participation from Engineering faculty. Co-authored and presented DEI initiative action plan to the Penn Engineering Dean at the end of semester.

Kappa Alpha Theta Sorority | New Member Director, DEI Committee Member

October 2024 – Present

- Oversee implementation of member orientation programs with VP of Education and advisors to facilitate new member onboarding and engagement. Lead diversity, equity, and inclusion initiatives including annual chapter inclusivity open-forum.