

# Obademilade ([Demi](#)) Fashemo

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## 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 degree program that combines Computer Science, Economics, and Network Theory.*

**Relevant Completed Coursework:** Programming Languages & Techniques I & II | Mathematical Foundations of Computer Science | Market and Social Systems on the Internet | Engineering Entrepreneurship I | Scalable & Cloud Computing | Introduction to Algorithms

GPA: 3.2/4.0

### Ursuline Academy of Dallas | Highschool

May 2023

GPA: 4.3/4.0, SAT: 1530 – Reading: 780, Math: 750

Dallas, TX

## TECHNICAL SKILLS

- **Programming Languages:** Java | Python | Javascript | SQL | OCaml
- **Tools & Platforms:** Github | IntelliJ IDEA | AWS (EC2, S3) | MySQL | DynamoDB | Node.js | React | Microsoft Office Suite

## WORK EXPERIENCE

### Sponsors for Educational Opportunity (SEO) | *Tech Developer Intern*

May 2025 – Present

- Completed 300+ hours of software engineering training focused on data structures, algorithms, and full-stack web development.
- Work in teams to design, test, and implement full-stack applications using Python, MySQL, HTML, JavaScript, CSS, etc.

### Curious Cardinals | *Mentor*

April 2025 – Present

- Mentor elementary, middle, and high school students through customized, individual, project-based learning experiences in product design, AI, and software development, guiding them in building portfolios and mastering technical tools.

### CycleBar | *Customer Experience Specialist; Salesperson*

April 2023 – August 2023

- Managed customer inquiries regarding account information and class-scheduling, executed new-member orientation. *Dallas, TX*
- 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.

### Code Ninjas | *Coding Teacher*

October 2021 – January 2023

- Instructed students aged 5-14 on coding curriculum including Java, Python, and C++.

Dallas, TX

- Developed individualized lesson plans to guide students through problem-solving approach to software design curriculum.

## PROJECTS

### [React Weather App](#)

July 2025 – July 2025

- Built responsive single-page React application that displays a 5-day weather forecast for any city or the user's current location (via the Google Browser Geolocation API)
- Developed custom hooks and Context for global state, integrated Google Geocoding & Weather REST endpoints, and implemented unit toggles (°C/°F), search history, and client-side caching to minimize API calls

### [BookBase – Reading List Management CLI Tool](#)

July 2025 – July 2025

- Co-developed a Python command-line application using Click, implementing the search command using the Google Books API for book metadata retrieval and Google GenAI (Gemini) for 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

- Co-developed Instagram-inspired social media platform featuring secure user authentication, image uploads with facial embedding matching via ChromaDB, and real-time chat functionality.
- Engineered personalized content feeds using Apache Spark-powered ranking algorithm, integrating Apache Kafka for posts.

### [Full-Stack Hangman Game](#)

December 2023 – December 2023

- Developed Java-based interactive game with a JavaFX UI and backend leveraging Java Collections, 2D Arrays, file I/O, and JUnit testing

### United to Learn

April 2022 – October 2022

- Conducted a service project with a non-profit to help underfunded elementary schools combat teacher inconsistency.
- Created an online curriculum aid that serves as a centralized resource of vetted educational videos for Spanish and English speakers; Led to temporary implementation of the resource in 12 United to Learn partner-elementary schools.

## LEADERSHIP & EXTRACURRICULARS

### Underrepresented Students Advisory Board in Engineering | *Board Member*

September 2023 – May 2024

- Facilitated 5 mixers and career information sessions per semester between 15-30 students and members of Engineering faculty.
- Presented action plan to Dean of Engineering School at the end of semester outlining initiatives to improve DEI relations.

### 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 within the chapter including annual chapter inclusivity open-forum