Omobolanle OLADEJI

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EDUCATION

2019 – 2023, The College of Wooster **GPA: 3.98/4.0**

- **Bachelor of Arts** in Computer Science (Minor in Economics), *Summa Cum Laude*.

  Thesis: An Analysis of Large Language Models in the HealthCare Domain (Honors)

WORK EXPERIENCE

- **Software Engineer,** *Microsoft Corporation* (June 2023 - Present):
  - Develop software features to improve high-capacity pipeline for the daily ingestion of over 7 billion Microsoft Teams messages
  - Process data to serve up internal Large Language Models. Develop LLM-enabled semantic search capabilities.
  - Resolve all emergent maintenance issues pertaining to service as OnCall Engineer, a position I assumed within three months of assuming my initial role due to my swift acquisition and demonstration of vital skills
  - Collaborate with software engineers to optimize system architecture and drive scrum meetings
- **Software Engineering Intern,** *Microsoft Corporation* (May 2022 - August 2022):
  - Resolved significant on call debugging issue for team by building interactive data analytics based dashboard to cut down team's debugging time significantly
  - Secured application using the highest standards of security in order to protect sensitive consumer data
  - Received full time return offer due to excellent performance during internship
- **New Technologist Intern,** *Cyborg Mobile LLC* (June 2021 - August 2021):
  - Pitched idea on developing a web app based on improving immigrant's experience in the United States based on my personal experience to senior Microsoft Engineers
  - Successfully led a team of 5 interns in developing said web app and presented to senior Microsoft executives
  - Received recommendation for Microsoft Software Engineering Internship due to demonstrated innovation and initiative displayed

TECHNICAL TRAINING AND SKILLS

Including but not limited to:

Programming: Python, R, MATLAB, JavaScript/CSS/HTML , C, C++, C#

Artificial Intelligence/Data Science: Data Visualization (Tableau, GGPlot), Natural Language Processing (LLMs), Predictive Modeling (Regression), Variable Selection, Hypothesis Testing.

Others: API Testing (Postman/Fiddler), Arduino/sensors programming, SQL, Computer Aided Design (AutoCAD), Backend Development (.NET Core), Git.

Solid understanding of these techniques. Can learn/adapt to other tools/languages as and when required.

ACADEMIC RESEARCH EXPERIENCE AND PROJECTS

- **Honors Thesis: An Analysis of Large Language Models in the HealthCare Domain (2022 – 2023)** (link):
  - Under supervision of Dr. Kowshik Bhowmik: Conducted year-long thesis on the potential of Transformer-based models such as BERT, DialoGPT, and T5 as tools for global health provisioning.
  - Developed Artificially Intelligent Conversational Agents and created interface for users to evaluate these agents.
  - Awarded "Most Timely" research award out of over 350 theses in class year
  - Presented research at the Ohio Conference for Women in Computing, only one of 2 undergraduate students selected to present.
- **Research Assistant, Anglophone Chile Project (January 2022 - May 2022):** Research focused on examining the cultural relations between English settlers and the Chilean population in the 19th century by digitizing newspapers.

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- Under supervision of Dr. Jennifer Hayward: used data visualization tools to map historical trends and patterns that reflected the socio-cultural landscape.
- Utilized web design skills to design an intuitive and accessible website for a global audience and maintained website.

- **Collaborative Research Environment Consultant, College of Wooster (October 2020 - May 2023):**
  - Under supervision of Dr. Jacob Heil: Conducted research on college's decades-old Senior Theses.
  - Cleaned and Analyzed thousands of theses to draw useful insights and conducted network visualizations to reveal interdepartmental collaborations and historical academic trends
  - Mentored students in better usage of technology in their research collaboration efforts

LEADERSHIP AND SERVICE

- **2023: Mentor, WooData:** Provide 1:1 technical advice on projects, early career mentorship, and recommend resources to club members.
- **2022: Wooster Data Science Club, Co-Founder, President**: Co-founded college's first ever Data Science club and grew membership to over 100 students in the course of over 1 year.
- **2022: Wooster Women and Gender Minorities in Economics, Vice President**: Oversaw alumni panels, and recruitment into club. Also tabled events in order to raise more awareness leading to a 30% increase in membership.
- **2022: Department of Mathematics and Computer Science, Peer Mentor:** Selected in inaugural set of peer mentors. Mentored underclassmen and guided freshmen in the transition from high school to college. Served as a liaison between students and faculty. Helped in planning academic schedules and gave internship advice.
- **2022: College of Wooster, Resident Assistant**: Served as Resident Assistant in my college's largest undergraduate dormitory. Created a supportive and nurturing environment for over 50 residents in Holden Hall.
- **2019 - 2022: College of Wooster, STEM Zone Intern:** Helped in improving STEM retention rates by identifying most out of risk students and conducting one on one meetings to mentor, connect them with resources and provide academic help.
- **2019 - 2023: Teaching Assistant:** Teaching Assistant for many classes over the course of studies: Intro to Data Science (3x), Intro to Statistics, Intro to Digital Humanities, Algorithms Analysis.
- **2019 - Present: Rewriting the Code:** Active Member of community of exceptional college/early career women with a passion for technology.

PRIZES, AWARDS & HONORS

- **2023: Summa Cum Laude:** Graduated with the highest undergraduate honors, given to students who have a cumulative GPA of 3.90 and have also achieved the highest grade of Honors on their undergraduate thesis.
- **2023: Computer Science Departmental Honors:** Computer Science Departmental Honors are awarded at graduation to students who meet the following standards who have a grade of "H" (Honors) on the Senior I.S. Thesis or unanimous vote of the department as well as a major GPA of 3.500 for all courses taken in Computer Science.
- **2023: Most Timely Thesis Research Award:** Research selected as Most Timely out of over 350 undergraduate theses.
- **2023: Omicron Delta Epsilon:** Inducted into National Economics Honor Society
- **2022: Google Student Travel Conference Scholarship:** This is a full scholarship given to a select number of applicants by Google to fund travel to conferences (Grace Hopper Conference in my case).
- **2020: Pi Mu Epsilon:** Inducted into the National Mathematical Honor Society on sophomore standing.
- **2019-2022: Dean's List Honors:** Dean's List Honors for all eligible semesters
- **2019: Wooster International Student Merit Scholar:** Awarded competitive $40000/year scholarship for undergraduate studies.