Reeda Huda

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EDUCATION

May 2026 Atlanta, GA	**Georgia Institute of Technology,** B.S. Computer Science **GPA:** 3.79 (Dean's List and Faculty Honors) **Study Abroad Program:** Georgia Tech - Europe **Advisors:** Dr. Rosa Arriaga, Dr. Cecily Morrison, Dr. Thad Starner, Dr. Paul Voss

RESEARCH EXPERIENCE

May 2025 – Aug 2025 New York, NY	**Microsoft Research (MSR),** Research Intern **Advisor:** Dr. Cecily Morrison, Sr Principal Research Manager, MSR Cambridge • Currently working on a paper for publication at CHI, exploring AI governance models for people with disabilities (More to come soon!)
Dec 2023 – Present Atlanta, GA	**UBICOMP Health and Wellness Lab,** Undergraduate Researcher & Community Outreach Lead **Advisor:** Dr. Rosa Arriaga • Currently working on a paper for publication at CHI, exploring older adults' perceptions of medical mistrust and healthcare AI funded by National Science Foundation (NSF) • Worked with community site coordinators and undergrad students to organize and lead weekly tech help workshops for older adults at a publicly subsidized housing site • Contributed to the creation and application of a detailed coding schema for analyzing qualitative data, specifically examining the emotional and informational dynamics in informal caregiver interactions on the r/caregiving subreddit • Created an annotated bibliography on Human-AI Collaboration, supporting research for the Virtual Patient System aimed at enhancing clinicians' communication with patients through AI agents
Aug 2024 – May 2025 Atlanta, GA	**UBICOMP Lab - PopSignAI,** Machine Learning Engineer **Advisor:** Dr. Thad Starner, Technical Lead of Google Glass & Professor at School of Interactive Computing, Georgia Tech • Investigating advanced machine learning and deep learning methods to improve the recognition of American Sign Language (ASL) fingerspelling, where each letter of a word is signed individually, for use in PopSign AI, a mobile app designed to teach ASL to hearing parents of deaf children through an engaging bubble shooter game
Aug 2024 – Dec 2024 Atlanta, GA	**Contextual Computing Group - Passive Haptic Learning (PHL),** Undergraduate Researcher **Advisor:** Dr. Thad Starner • Improving mechanisms for grading user performance using vibration-based PHL gloves that teach piano melodies through muscle memory, integrating algorithms to provide real-time feedback • Tracking success by comparing software-detected matches with actual performance
May 2023 – Dec 2023 Metz, France	**Georgia Tech - Centre National de la Recherche Scientifique International Research Laboratory 2958,** Undergraduate Researcher **Advisor:** Dr. Paul Voss, Associate Professor at School of ECE, Georgia Tech Europe • Detected security vulnerabilities by leveraging Kali Linux tools to gain remote access of 3 vulnerable machines with open ports, showcasing proficiency in penetration testing strategies • Focused on critical phases like reconnaissance, scanning and vulnerability assessment • Composed 3 detailed progress reports on penetration testing advancements and strategies utilized

PROFESSIONAL EXPERIENCE

May 2024 – Jul 2024 New York, NY	**JPMorgan Chase,** Artificial Intelligence & Data Science Summer Analyst • Traced and optimized complex clustering algorithms on employee and company data for the Corporate Investment Banking Applied AI/ML team, implementing an alternative DBSCAN algorithm that improved silhouette score accuracy by 20% • Researched and implemented 3 key evaluation metrics for clustering algorithms to rigorously assess performance • Conducted statistical analysis on rising housing prices in Los Angeles using a linear regression model, achieving a 98% accuracy score and contributing to research insights for the JPMorgan Chase Institute

LEADERSHIP/ACTIVITIES

Jan 2023 – Apr 2024 Atlanta, GA	**Bits Of Good,** Engineering Operations Coordinator • Spearheaded the creation of the Bits of Good analytics dashboard enabling the seamless collection and visualization of user engagement data from diverse applications built by the organization for non-profits in Atlanta • Facilitated the Bits of Good recruitment process with the Engineering Operations team, Engineering Managers & Developer Bootcamp Leadership

PROJECTS

Electronic ARTrium, Interactive Art Exhibit for Public Showcase

- Developed a section control program using Python, Unity and C# for the integration of audiovisual elements for the Georgia Tech Fall 2024 Art Exhibit
- Led the Sensor Processing and Networking (SPN) team to enhance interactivity and synchronization between video displays, audio speakers, & other mechatronic components by successfully facilitating the seamless delivery of UDP packets

NomNom!

- Led the development of NomNom using a robust technical stack, leveraging Streamlit for the front end, Hugging Face's EasyOCR for precise data extraction from grocery receipts, and OpenAI's GPT-4 API for advanced natural language processing
- Successfully implemented and prompt engineered a GPT-4-backed chatbot to consider user-specific factors such as food allergies and culinary preferences

SKILLS

Computing: Python, SQL, Java, HTML, CSS, Javascript, Pandas, NumPy, Matplotlib, Scikit-Learn, Jupyter, GitHub, Kali Linux, LaTeX, Streamlit, Unity

Research: Data Collection, Qualitative Data Analysis, Thematic Coding, Quantitative Data Analysis, Statistical Analysis/Machine Learning, Literature Review, Research Design