

Experience

- 2022

Synapse Analytics
Front End Engineering Intern
 - Collaborated in the production of unified React components for reuse in company-wide projects
 - Implemented in TypeScript components from client designs and requirements
 - Utilized WebKit and Mozilla vendor properties to ensure uniformity of work across platforms

Cairo, Egypt
- 2022-23

Georgia Institute of Technology
Undergraduate Teaching Assistant
 - Assisted students in the understanding of computer architecture, linear algebra, and coding
 - Created supporting materials that cover projection, raytracing, and geometry subdivision
 - Assessed student performance via thorough graphics and visualization assignments
Public Relations Director at WREK Radio
 - Led a small design team, with a focus of modernizing existing request processes
 - Created a multitude of engaging promotional materials to use on all social media platforms
 - Managed annual festival digital identity, marketing strategy, and merchandising
 - Spearheaded website redesign, management, and ongoing implementation

Atlanta, Georgia
- 2019 – 2020

Research Assistant at Systems Psychology Lab
 - Organized and managed focus groups for data collection purposes
 - Engaged in detailed data analysis of qualitative and quantitative data sets
 - Collaborated in the launch of a new study focusing on teaching assistants' psychological wellbeing with the Georgia Tech Center for Teaching, and Learning (GT CTL)**Publications:** Dunbar, T. A., Abotaleb, I., & Iau, E. (April, 2020). Factors contributing to TA well-being. Poster presented at the CIRTLL All-Network TAR Presentation.

Education

- 2019-2023

Georgia Institute of Technology
Bachelor of Science in Computer Science, Honors Program, *focus in Intelligence and Media*
GPA: 3.91
Relevant Courses: Data Structures and Algorithms, Linear Algebra, Computer Graphics, Machine Learning, Information Visualization, Computer Vision
- 2022-2024 (est.)

Master of Science in Computer Science, *focus in Computer Graphics*

Projects

- Transfer App (2022)** An end-to-end encrypted progressive web app on Next.JS to facilitate the transmission of patient information between hospital institutions during the patient transfer process for Emory University Hospital
- Raytracer (2022-Present)** A Java based raytracer that calculates primitive intersections, shading, reflections, and shadows of 3D imagery based on positional data

Skills

Natural Languages

Arabic
English
French

Programming Languages

Python
JavaScript
TypeScript
Java
C
C++

Frameworks & Tools

NumPy
PyTorch
Git
React
React Native
Next.JS

Computer Applications

Adobe Photoshop
Adobe Lightroom
Adobe Illustrator
Adobe After Effects
Adobe XD
Final Cut Pro X