

## Experience

- 2022

**Synapse Analytics**  
*Front End Design and Implementation Intern*
  - Collaborated in the design of unified React components for reuse in company-wide projects
  - Implemented in TypeScript components and pages from client designs and requirements
  - Produced mockups website and tools to test and demonstrate usable UX schemes for complex data modelling and machine learning scenarios.

Cairo, Egypt
- 2022

**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., & lau, E. (April, 2020). Factors contributing to TA well-being. Poster presented at the CIRTl All-Network TAR Presentation.

## Education

- 2019-2023 (est.)

**Georgia Institute of Technology**  
Bachelor of Science in Computer Science, Honors Program, *focus in Intelligence and Media*  
GPA: 3.92  
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
- Raytracer (2021)** A TypeScript based raytracer that calculates primitive intersections, diffuse shading, shadows, and specular highlights for spheres and disks on an HTML5 canvas

## 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