# Ibrahim Abotaleb

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## Experience

**Georgia Institute of Technology**                                      Atlanta, Georgia

2022            *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

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 CIRTL All-Network TAR Presentation.

**Trella**                                                              Cairo, Egypt

2020            *Technology Intern*
– Collaborated in managing a technical venture project tackling a revamped geolocation process
– Developed and presented general top-level architecture and plans for a geolocation microservice
– Established development plans detailing coherent deadlines to finish in the given timeframe
– Implemented a .Net microservice to optimize and automate geofencing calculations

## Education

**Georgia Institute of Technology**

2019-2023 (est.)     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 | Programming Languages | Frameworks & Tools | Computer Applications |
|---|---|---|---|
| Arabic | Python | NumPy | Adobe Photoshop |
| English | JavaScript | PyTorch | Adobe Lightroom |
| French | TypeScript | Git | Adobe Illustrator |
| | Java | React | Adobe After Effects |
| | C | React Native | Adobe XD |
| | C++ | Next.JS | Final Cut Pro X |