Ibrahim Abotaleb

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Experience

Synapse Analytics — Cairo, Egypt

2022 — *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

Georgia Institute of Technology — Atlanta, Georgia

2022-23 — *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.

Education

Georgia Institute of Technology

2019-2023 — 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	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

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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	Final Cut Pro and Adobe Creative Cloud: Photoshop, Illustrator, After Effects, XD