Ibrahim Abotaleb

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Experience

Nawy — Cairo, Egypt

2023 — *Front End Software Engineer*
- Developed and maintained React atomic components for the real estate listing platform, ensuring consistent UI/UX via responsive SCSS styling.
- Collaborated with the design team to create intuitive user flows, enhancing the overall user experience of the platform.
- Contributed to discussions on server-side rendering and SEO optimizations, implementing best practices to improve the platform's search engine visibility and performance.
- Worked closely with the backend team to optimize API structures, API calls, and data usage, resulting in reduced response times and enhanced data retrieval efficiency.

Synapse Analytics

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 – Highest Honors

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 in addition to advanced modelling tools utilizing on vertex/edge 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