Michael Naguib

Computer Scientist

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Education

B.S. Computer Science & Mathematics

The University of Tulsa -- Tandy School of Computer Science

Aug 2018 – May 2022 Tulsa, OK Cumulative GPA: 3.80/4.00

- Selected Coursework: Data Structures, Algorithms, Databases, Networks, AI, Graphics, Assembler, Senior Design, Theoretical Calculus, Linear & Modern Algebra, Topology, Differential Equations, Discrete Mathematics, Statistics, Numerical Methods
- Dean's List (6/8 Semesters)

Experience

Researcher & Teaching Assistant

Tulsa Undergraduate Research Challenge (TURC)

Summer 2019 – Summer 2020 Tulsa, OK

TURC is a research program that enables students to work one-on-one with professors to learn application and concept through research & academic papers.

- Coauthored Motivation and Design of the Conversational Components of DraftAgent for Human-Agent Negotiation the runner up for the Human Agent League ANAC 2020 as a part of the TU Masters Research group.
- Designed and taught labs for a Java based Introduction to Computer Science Course (CS-1043).
- Designed several parallel game theoretic simulation projects & performed statistical analysis for the dominating dynamics.

Projects

Sight Reading App (Senior Design Project)

Ongoing

- Scrum Master in an agile-driven development of a mobile application to train musical sight reading and pitch recognition.

Boid Simulation (Independent Project)

Ongoing

- Implemented Craig Reynolds Flocking algorithm for autonomous agents in $O(n \cdot \ln(n))$ utilizing a KD-Tree & implemented Euler Integration to solve the force updates on the particles.

CWBURD (TURC Project)

Summer 2019

- Implemented a distributed computational model for Cooperation with Bottom-up Reputation Dynamics a game theoretic reputation & norm-strategy based interaction model.

Skills

Programming

Python	C/C++	Java
Bash	SQL	LaTeX
HTML	CSS	JS
Assembly		

Technical

Git	Anaconda	CUDA
JOGL	Tensorflow	OpenMP
JSX	OpenMPI	OpenGL
Keras	Numpy	Github

Soft

Organizational & Planning

Team Leadership Experience

Strong Written & Verbal Communication

Self-Motivated & Detail Oriented

Strong Problem Solving and Analytic capability

Personal Accountability & Integrity

Interpersonal Amicability

Presentation