

Michael E. Tomadakis

(321) 987-0878 | m.tomadakis@ufl.edu | linkedin.com/in/michael-tomadakis/ | github.com/Skunkmeister

Education

University of Florida (Computer Science GPA: 3.83)

August 2020 - **May 2024**

B.S. in Computer Science (Engineering), Minor in Business Administration

Significant Coursework: Database Systems, Operating Systems, Data Structures & Algorithms, Computer Architecture, Discrete Structures, Intro to Probability, Computational Linear Algebra, Differential Equations, Signals and Systems, Statistics for Engineers, Intro to Data Science, Natural Language Processing, Multimodal Machine Learning, Computer Networking, Computational Photography, Software Engineering, Bioinformatics

Skillset

Languages - Python, MatLab, R | Typescript, C++, CUDA | MongoQL, SQL | HLSL, GLSL

Frameworks/Tech - Next.js, MongoDB, OracleDB, Terraform, Docker, Github Actions, AWS, Torch, Pandas, NumPy, SpaCy, NLTK, Unreal Engine 3/4/5, Blender / Cycles, SideFX Houdini

Projects

Phonetic Autocorrect (Python) | Multimodal ML (Semester-long Open-Ended Course Project) *Spring 2023*

- Utilized [SpaCy](#), [Torch](#), phonetic embeddings, n-gram model to perform phonetically-driven autocorrection.

"DLU.js" | Part of DevLUP

Fall 2021 - Ongoing

- Wrote and used [Next.js](#) backend w/ [MongoDB](#), hosted on [AWS](#) w/ [Terraform](#), [Docker](#), [Github Actions](#) CI/CD.
- Created responsive, crawlable [SSR](#) frontend utilizing [Three.js](#), [Redux](#), [Tailwind](#).

Covid Data Visualization App | Database Systems (Course)

Fall 2021

- Wrote [SQL](#) queries involving joins of >10 large tables in [OracleDB](#) database of >250k rows, visualized w/ [Chart.js](#) in [React](#).

Memory Manager (C++) | Operating Systems (Course)

Spring 2022

- Improved performance (tested at 15%, highly implementation-dependent) in programs utilizing malloc by preallocating and tracking variable sums of memory to later use without issuing additional system calls.

Neural Network from Scratch (C++) | Data Structures (Course) → Passion Project *Spring 2021, Summer 2022*

- Made w/ a partner, implemented neurons, layers, and backpropagation, using [Eigen](#) library.
- Achieved accuracy near multiple linear regression predicting COVID outcome from CDC dataset.

Experience

JP Morgan Chase | Software Engineering Intern

June - August 2023

- Smallest & *only* intern team to deploy completed app to production, early demos in test enviro in < 1 week.
- Wrote ~11,000 lines of [Typescript](#), with rapid response to several last-minute feature requests.
- Discovered and mended substantial vulnerability and instability in two other internal tools.
- Achieved 90% code coverage with [JEST](#). Used [Terraform](#), [JULES](#) CI/CD to provision and deploy to [AWS](#).

Berni & Murcer - Friends for Life | Intern | Project Manager, Tech Art Lead

June 2022

- Planned/executed game development effort w/ team of 30 volunteer artists and programmers.
- Guided team of 10 artists in technical art techniques in [Unity](#).

DevLUP (UF Student Org & Nonprofit) | President / Founder

2020 - Current

- Provided over 50 hours of technical workshops & supplementary material with emphasis on computer graphics, shaders, and Unreal Engine development.
- Seeded 4 collegiate branches at UF, FSU, FAU, and FIT, aggregating >2000 progress posts to our website.

UAV Club | President, Cofounder

2021 - Current

- Secured \$8k as part of NASA contract to build autonomous drone to map & curtail deforestation in Ghana using computer vision (ongoing), and \$2.5k from UF Remote Sensing Lab to construct hexacopter for agriculture/computer vision.