Jonathan Levy

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EDUCATION

University of Florida   Gainesville, FL
Bachelor of Science in Computer Science Engineering, Minor in Mathematics   *May 2024*

Relevant Coursework

Data Structures and Algorithms, Information and Database Systems 1, Enterprise Software Engineering, Operating Systems, Math for Machine Learning

GPA: 3.90/4.00

EXPERIENCE

Reactonaut   July 2023 – August 2023
Fullstack Developer   *Remote*
- Early stage startup that aimed to help people learn React
- Implemented NextAuth for user authentication
- Integrated MongoDB Atlas to save user data

Open Source Club   March 2023 – Present
Technical Lead   *Gainesville, FL*
- Technical Lead for the Manim project in UF Open Source Club
- Helped members understand the codebase and how to contribute
- Coached new members with learning Git

PROJECTS

Project Manager | *Next.js, AWS, MongoDB*   May 2023 – July 2023
- Developed a Next.js application to manage large tasks and projects
- Implemented a REST API with Node.js and Express to handle CRUD operations on tasks
- Integrated MongoDB to store user and task data

Autoencoder | *Python, PyTorch*   April 2023 – May 2023
- Implemented an autoencoder to compress and decompress images from the MNIST dataset
- Trained using 4 Linear encoding and decoding layers with a latent space size of 39
- Achieved an difference L2 Norm of 0.3 between the 10000 original and reconstructed images from the test set

Memory Manager | *C++*   March 2023
- Implemented a memory manager to allocate and free memory in a virtual memory system
- Devised a system to track holes in memory for future allocations
- Ensured no memory leaks by running valgrind on the program

RoboTech - Manuela | *Python*   March 2023
- Developed an AI counseor to help with emotional well-being at Georgia Tech hackathon RoboTech
- Implemented Open AI API with DaVinci GPT3-model to generate human like responses to user voice input
- Integrated with Google Text to Speech API to convert text to speech

Personal Portfolio Website | *HTML, CSS*   November 2022 – Present
- Developed a personal website to showcase projects
- Set-up a responsive web design for mobile and desktop
- Website hosted at www.levyjonathan31.github.io

TECHNICAL SKILLS

Languages: C++, Python, MATLAB, Java, SQL, JavaScript, HTML/CSS
Frameworks: React, Express
Developer Tools: Git, VS Code, Visual Studio, IntelliJ
Libraries: SFML, PyTorch, Matplotlib, Tailwind CSS