

John Glass

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Education

University of Florida - University Scholars Program Scholarship Recipient

Aug 2021 - May 2025

B.S in Computer Science and Minor in Electrical Engineering GPA: 3.30: Dean's List 2023 Gainesville, FL

Relevant Coursework: **Data Structures and Algorithms, Introduction to Software Engineering, Programming Language Concepts, Human-Computer Interaction**

Skills: Python, C++, C#, Java, TypeScript, JavaScript, ASP.NET, AngularJS, ReactJS, REST API, Node.js, Cypress, Firebase, Git, HTML, CSS, R, AWS Services, SQL, NoSQL, SQLite, Golang, GORM, Docker, MongoDB, MS SQL Server, MySQL

Organizations: Upsilon Pi Epsilon, University of Florida Association for Computing Machinery, Society of Software Developers

Technical Experience

UKG (Ultimate Kronos Group) Software Engineering Internship

May 2023 – Present

Software Engineer Intern

Weston, FL

- Identified issues causing UKG's PTS file generation to experience a defect causing important tax data to be omitted by analyzing SQL Store Procedures related to PTS file generation and configuring Queries in production databases. Updated the Store Procedures to generate the correct data, preventing future customers from experiencing this defect.
- Aided in the development of customizable user dashboards by expanding the functionality of 3 ASP .NET Web APIs utilizing C# and JavaScript allowing several features of the website to be changed.

U.F. Department of Computer and Information Science and Engineering Research

Oct 2022 – Present

Spatial Audio Localization Research Assistant, Software Engineer

Gainesville, FL

- The 3D Spatial Audio Localization Research Team could not properly utilize Marvelmind location data with their audio processing systems. Constructed a Python API for sending, receiving, and performing calculations on the data and implemented it on a Python server I deployed to enable their 3D sound rendering technology.
- The team was struggling to visualize the location data and had no remote control over the internal operations of the system. Designed a GUI that displays the data and is configured to remotely control sound rendering operations using Paramiko to connect and communicate with the server.
- Co-authored a Research Paper that is being published to a professional journal and qualified for a scholarship.

Mitchell Glass LLC

May 2021 – Present

Software Engineer

Fort Lauderdale, FL

- Codeveloping a Python application to process commission data entries from insurance provider CRM databases for 17 insurance call centers.
- Implementing data structure optimizations to data validation and report creation processes for 10000+ entries weekly, based on legacy Excel framework, to improve performance.

Projects

BeHere

Jan 2023 - May 2023

Full Stack, Collaborative Website - <https://github.com/nicholasamigo/BeHere>

- Designed an event-planning website utilizing the AngularJS framework and a Golang backend with two teammates.
- Created an API with Golang and TypeScript that enabled backend functionality and developed its frontend integration, incorporating the Google Maps API, Firebase Authentication, and our GORM database.

BracketApp

Jan 2023 - May 2023

Front End Websites - <https://github.com/shawnbanks1/CEN4721-Bracket-Project>

- Designed two variations of a Tournament Bracket Creation Tool Web Application in AngularJS.
- Created two TypeScript APIs for creating and managing single and double elimination tournament brackets with alternative structures, as well as two alternative visual designs.

PLC Project – Personally Designed Programming Language

Aug 2022 - September 2022

Programming Language

- Developed a Programming Language in Java using Gradle consisting of a Token and Scope class, and the Lexer, Parser, Interpreter, Generator, and Analyzer.

Involvement

Association for Computing Machinery, University of Florida

Feb 2023 – Present

Mentor

Gainesville, FL

- Connected with two mentees to offer professional and technical development advice.
- Engaged in professional development workshops to enhance networking and interpersonal skills.