GREGORY DANIEL BOURAOUI

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EDUCATION

University of Florida Gainesville, FL
BS Computer Science, Minor in Engineering Innovation August 2018 - May 2023

WORK EXPERIENCE

SurfLab Gainesville, FL
Undergraduate Research TPM January 2023 - May 2023

- Applied the Agile methodology to collaborate with 3 teams throughout the project life cycle, holding weekly stand-up meetings, sprint planning, and backlog grooming, resulting in an increase in development efficiency and timely delivery of milestones.
- Utilizing object-oriented programming paradigms in C#, developing a state-of-the-art surgical VR simulation that integrates MRI and CT scans to recreate real-time procedures, aiming to provide surgeons with a highly immersive training environment that enhances surgical skills and increases procedural accuracy for trainees.
- Created and maintained UML diagrams, including system architecture, use cases, class diagrams, and activity diagrams, resulting in an improvement in team observability and a streamlined development process by providing clear visual representations of system structures, functionality, and design patterns.

Eufinity Wellness Remote
Design/IT Team Lead June 2022 - September 2022

- Worked 40 hours/week orchestrating strategies across multiple teams within the company to achieve results exceeding expectations in order to accomplish company goals faster.
- Enhanced the online presence of the company by leveraging JavaScript to customize and modify their existing website, resulting in a dynamic and visually appealing online platform.
- Streamlined and optimized workflow for a team of 11 interns by supervising and administering tasks on Jira and integrating Confluence, resulting in maximum efficiency and effective collaboration.

PROJECTS

Airbnb Reservations Analysis | *Python*
Evaluated trends amongst multiple datasets containing over 200k tuples of data regarding booking frequencies. Graphed and analyzed our findings utilizing data clusters in Python to present reasonable estimations on future Airbnb booking interactions.

COVID-19 Trend Analysis | *SQL, Javascript, css*
Utilized JavaScript library React to implement a GUI that comprehends relevant trends on the spread of COVID-19. Programmed SQL scripts which parsed through 750k tuples of data to analyze and graphically demonstrate a variety of identified trends.

Property Investment Indicator | *Javascript*
Developed a real estate investment website utilizing JavaScript and the Axios library in conjunction with React. Through the integration of three APIs, the website effectively showcases property listings on an interactive map. Moreover, it employs a sophisticated predictive algorithm to provide users with optimal investment recommendations based on their selected properties and their estimated values.

Pathfinder | *C++*
Calculated both Dijkstra and A* shortest path algorithms in C++ to find the most optimal path between two user-selected nodes on an interactive topological map.

Memory Management *C++, Linux*
Developed a custom memory management library for Linux in C++, meticulously addressing memory leaks and fragmentation by utilizing Valgrind, resulting in a 100% elimination of such issues. Optimized the development and execution of the testing framework through the effective utilization of makefiles, enhancing efficiency and ensuring reliable testing processes.

SKILLS

Programming Languages:	Python, Java, C++, JavaScript, SQL, Linux
Python Packages:	Pytest, Numpy, Matplotlib, Pandas, Scipy, Seaborn
Project Management:	Git, Jira, Confluence, Agile, UML, Notion, Organization