

Gregory Daniel Bouraoui

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Education

University of Florida

May 2023

BS Computer Science, Minor in Engineering Innovation

Experiences

University of Florida (Surflab)

January 2023 – May 2023

Undergraduate Research, TPM

Gainesville, FL

- 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 data visualization 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.
- Led cross-functional team of developers, designers, and QA testers to develop a large codebase for a high-profile project, resulting in a 20% increase in overall system performance.

Eufinity Wellness

June 2022 – September 2022

Design/IT Team Lead

Remote

- Led and coordinated strategies across multiple teams, consistently exceeding expectations to accelerate company goal achievement. Worked 40 hours per week to optimize team performance.
- 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.
- Collaborated with founders and other team leads to architect and develop robust, scalable software solutions.

Projects

Airbnb Reservations Analysis | Python

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

Property Investment Indicator | JavaScript, CSS, HTML

- Developed a real estate investment website utilizing HTML, CSS, JavaScript and the Axios library in conjunction with React.js.
- Integrated multiple APIs to effectively showcase property listings on an interactive map, allowing users to put the properties in perspective.
- Employed a predictive algorithm to provide users with optimal investment recommendations based on the nearest similar properties.

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.

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

Python (NumPy, Pandas, Pytest, SciPy, Matplotlib, Seaborn), Java, Javascript, C/C++, SQL, NOSQL, HTML, CSS, Linux, Data Visualization, Databases, Machine Learning, Project Management, Product Development, Collaboration, Problem-Solving, AWS, Docker, Kubernetes, Git, Ubuntu, Jira, Confluence, Tableau, Agile Methodology, SDLC, Presentations + Public Speaking, Organization, Time Management, Critical Thinking, Excel, Git, GitHub, UML, Communication, Leadership, Adaptability, Innovation, React.js, Scrum