Gregory Daniel Bouraoui

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Education

University of Florida *May 2023*

BS Computer Science, Minor in Engineering Innovation

Work Experience

UF Herbert Wertheim College of Engineering (Surflab) *January 2023 – June 2023*

Software Engineering Research Assistant *Gainesville, FL*

- Enhanced training accuracy and immersion for surgeons by developing a state-of-the-art surgical VR data visualization full-stack application in C#, integrating MRI and CT scans for real-time procedure recreation with Unity.
- Assisted in preprocessing and consolidation of 2D datasets, employing advanced techniques to transform the data into volumetric representations (voxels) for enhanced virtual spatial interpretation.
- Created and managed UML diagrams (system architecture, sequence diagrams, dependency diagrams), improving team productivity by 50% through streamlining development with clear visualizations of system structures and design patterns.
- Applied the Agile methodology to collaborate with 3 teams throughout the project life cycle, leading weekly stand-up meetings, sprint planning, and backlog grooming, resulting in achieving project milestones 25% faster.

Eufinity Wellness *June2022 – September 2022*

Software Developer Intern *Remote*

- Created a compelling frontend for the company website, employing JavaScript, HTML, and CSS to craft a dynamic and visually engaging online presence for their customers as well as a new portal for future job applicants.
- Led Design/IT team and managed 11 interns, orchestrating objectives with Jira and Confluence to surpass goals and streamline workflows, improving company efficiency and achieving team milestones 100% faster.
- Prototyped the full mobile application on Adobe XD, initiating both frontend and backend development and research for their android app while conducting product testing.
- Collaborated with founders and other team leads to design, architect and develop robust, scalable software solutions.

Projects

AI-powered Meal Planner & Workout Routine | Python

- Architected and generated a serverless application integrating the OpenAI API, AWS Lambda, and Step Functions to personalize weekly meal plans and progressive overload workout routines, aligning with users' target caloric and fitness goals.
- Implemented an LLM to provide a user-focused design, providing 5-day weekly workout routines tailored for progressive overload lifting, and custom meal plans (with recipes) based on their ingredients, balancing user-specified caloric needs.
- Leveraged AWS cloud technologies for scalable, efficient processing of meal and workout data, ensuring real-time, responsive user experience.
- Configured SES-based email automation system, enhancing engagement and user satisfaction.

NBA Draft Simulation | Python

- Program that identifies the optimal draft prospect for a specific NBA team.
- Incorporated Python, PostgreSQL, Scikit-Learn, and Pandas to manipulate and analyze data from NCAA and G League prospects to identify data that contributes to winning NBA games.
- Built dashboards in Power BI enabling clearer data interpretation.

Property Investment Indicator | JavaScript, CSS, HTML

- Developed a full-stack web application, employing a predictive algorithm for optimal investment advice, matching users with similar property profiles and their investment statistics.
- Developed a frontend utilizing HTML, CSS, JavaScript and the Axios library in conjunction with React.js.
- Implemented Fast API integration for backend, enhancing interactive map with user-friendly property listings for comparison.

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.
- Designed SQL queries which parsed through 750k tuples of data to analyze and graphically demonstrate a variety of identified trends based on demographic as well as geographical data.

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 with Matplotlib in Python to present reasonable predictions on future Airbnb booking interactions.

Technical Skills

Languages: Python, Java, JavaScript, C/C++, SQL, HTML, CSS, Linux, R

Frameworks & Libraries: NumPy, Matplotlib, Pandas, Pytest, SciPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, React, Node

Database & Cloud Technologies: AWS, Azure, Tableau, Power BI, Hadoop, MySQL, PostgreSQL

Project Management: Atlassian, Jira, Confluence, Scrum, Agile Methodology, SDLC, UML

Version Control: Git, GitHub, Docker, Kubernetes

Certifications

AWS Certified Solutions Architect – Associate