KEITH SEQUEIRA

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OBJECTIVE

Software Engineer with expertise in full-stack development, data-driven applications, and financial software solutions. Seeking a graduate role in software engineering to apply technical skills and contribute to innovative projects.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, SQL, HTML5, CSS; **Libraries:** Pandas, NumPy, Requests, math.js, Beautiful Soup, StringIO, scikit-learn, matplotlib; **Frameworks:** Node.js, React.js; **DBMS:** MySQL, Neo4j; **Cloud Platforms:** AWS; **Developer Tools:** Git, GitHub, CI/CD (GitHub Actions), Prettier, Live Server, XAMPP.

WORK EXPERIENCE

Software Intern Jan 2024 - Dec 2024
Construction Consultant Group LLC *Remote*

- Developed responsive and user-friendly web applications tailored to client requirements, ensuring optimal performance and usability across devices.
- Deployed and hosted web applications on Netlify, leveraging its automated build and deployment features for efficient delivery and uptime.
- Implemented CI/CD pipelines using GitHub Actions to automate testing, building, and deployment processes, resulting in faster and more reliable release cycles.

Full Stack Developer Sep 2022 - Dec 2022
Citisoft Inc *Remote*

- Led a team of 5 in developing an Asset Management application using C# and the .NET Framework to meet the unique requirements of over 50 small-scale RIAs.
- Integrated real-life data for over 7,000 stocks into the platform using data integration techniques, ensuring users had access to accurate and up-to-date information.
- Created a sophisticated matching algorithm to pair clients with suitable investment products based on risk tolerance, objectives, and preferences, increasing matching accuracy by 35%.

Java Developer Sep 2021 - Dec 2021
Redgate Software *Cambridge, UK*

- Collaborated in a team of 3 to develop a Budget Tracker application following software development best practices, improving financial reporting accuracy by 80%.
- Utilized object-oriented programming principles to refactor the codebase, simplifying it by 20% and ensuring scalability for future growth.
- Deployed testing frameworks to improve code quality, reducing defect rates during the testing phase of the project.

PROJECTS

Meditation App (Ongoing) | *JavaScript, TypeScript, React Native, Tamagui, Node.js*

- Developing a cross-platform Breathing Exercise App using React Native and TypeScript, with dynamic user-defined settings for step durations and cycle repetitions.

- Integrating audio guidance and user-selected background music using Node.js and JavaScript, enhancing the overall user experience with customizable features.
- Building a responsive UI with Tamagui, ensuring seamless navigation and adaptive design across multiple device screen sizes, improving usability.
- Implementing data storage and retrieval functionality, allowing users to save and access their custom settings and exercise history, ensuring a personalized experience.

Portfolio Website | *HTML5, CSS, Javascript*

- Developed a user-centric website with vanilla HTML, CSS, and JavaScript, featuring a dynamic menu for seamless navigation across sections.
- Built a responsive "Projects" section with CSS and linked GitHub repositories, improving project visibility.
- Created a mobile-responsive hamburger menu, interactive buttons, and icons with custom hover effects using CSS, ensuring smooth navigation across devices.

Football Match Predictor | *Python, Pandas, Beautiful Soup, scikit-learn*

- Developed a custom machine learning model integrating features of gradient boosting, neural networks, and random forests to predict football match outcomes, achieving 78% accuracy.
- Automated data collection by writing a Python script for web scraping from FBref.com, reducing manual data collection efforts by over 50%.
- Improved predictive performance by 12% through feature engineering techniques like handling missing data and applying hyperparameter tuning.

Football Player Akinator Clone | *Python, Pandas, CSV module*

- Designed a custom decision tree algorithm based on a binary tree structure, achieving 95% accuracy and surpassing standard implementations.
- Built a comprehensive database of over 1,000 player profiles, improving response time by 30% through efficient data management.
- Enhanced player suggestions by analyzing iterative user feedback, increasing relevance and user engagement.

Database Design | *MySQl, XAMPP, SQL*

- Analyzed real websites to extract relevant entities and attributes for efficient database design.
- Configured XAMPP to set up a local web server and integrated MySQL for streamlined database management.
- Developed and executed SQL queries for data retrieval, focusing on performance optimization.
- Implemented indexing strategies (Unique and Composite) and optimized database operations by selecting appropriate JOIN types (INNER JOIN, LEFT JOIN) to enhance query efficiency and improve performance.

EDUCATION

Bachelor of Engineering in Computer Science, 1st Class Honours — Jan 2021 - Jan 2024
Anglia Ruskin University — Cambridge, UK

LANGUAGE AND ELIGIBILITY TO WORK

- English - Native, Portuguese - Basic proficiency