

# KEITH SEQUEIRA

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[Email](#) ◇ [LinkedIn](#) ◇ [GitHub](#) ◇ [Website](#)

## PROFESSIONAL SUMMARY

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Computer Science graduate with expertise in full stack development, open source contributions, and extensive experience delivering interactive applications and scalable software solutions, including data analysis and visualization tools. Seeking a role as a Software Engineer to leverage technical skills and contribute to innovative solutions.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, HTML, CSS, Java, Python, C, SQL, Cypher; **Libraries:** Pandas, NumPy, Requests, math.js, Beautiful Soup, StringIO, scikit-learn, matplotlib; **Frameworks:** Node.js, React Native; **DBMS:** MySQL, Neo4j; **Cloud Platforms:** AWS; **Developer Tools:** Git, GitHub, Prettier, Live Server, XAMPP.

## PROJECTS

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### Meditation App (Ongoing) | *React Native, TypeScript, JavaScript, 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 customized 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 | *HTML, CSS, Javascript*

- Developed a user-centric website with 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 with CSS, ensuring smooth navigation across devices.
- Designed interactive buttons and icons with custom hover effects using CSS, enhancing user engagement.

### 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.

### Asset Management Platform | *C#, .NET*

- Utilized C# and .NET Framework to build an application 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 client satisfaction by 20% and matching accuracy by 35%.

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

- Designed a custom decision tree algorithm using advanced machine learning techniques, 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.

### **Budget Tracker** | *Java*

- Developed a Budget Tracker application using 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.

## **EDUCATION**

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**Bachelor of Engineering in Computer Science**, Anglia Ruskin University

2021 - 2023

**Relevant Coursework:** DSA, Software Engineering, Database Design, Artificial Intelligence, Cloud Computing.

## **LANGUAGE AND ELIGIBILITY TO WORK**

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- English - Native
- Eligible to work in both the European Union and the United Kingdom.