

Role Description – Senior iOS Engineer

Real Time Data believes that for the sustainability of our oceans, every fish caught will need to be counted. We believe that fisheries should be sustainable for generations to come.

We provide software applications which collect, report, and manage information for commercial and recreational fishers worldwide who want to or are required to record information about fishing and the marine environment.

We enable easy data collection through an intuitive user app called Deckhand, which works exactly the way the fisher works, and produces clear, usable reports for the fisher.

Recognized worldwide, seafood harvesters choose Deckhand for profitability, sustainability, and accountability.

Company Values

- Be dedicated to producing **quality** solutions which are innovative and stand out among competitive products.
- Have **integrity** in work and customer relationships.
- **Respect** customers, business partners, and co-workers needs, opinions, and input to our development process.
- Have **empathy** for customers and other employees, understanding their perspectives and incorporating it into your work habits.

The ideal candidate will not only have the skills we need, but possess an understanding of how this important connection to customers leads to innovative solutions.

At the same time the new team member will be motivated by a desire to make a difference, contribute to a team, be properly recognised and have some enjoyment along the way.

In the role of the Senior iOS Engineer, you will design, develop, test and document high quality and cost-effective solutions that meet and exceed support and operational requirements. The overall mission will be to deliver world class technology services and solutions.

The main focus of this role is on the Deckhand “engine”:

- Deckhand is a generic data collection engine. It relies upon “workflows” to define the data collection features and operation needed. Thus “Workflow Programmers” use an IDE (developed by us) and a language (developed by us) to create these solutions.
- This role is to enhance, maintain, and be fully responsible for the Deckhand data collection presentation system in iOS as well as the language implementation internally which supports it.

Job Responsibilities

Specific responsibilities include:

- Take ownership of the Catchflow language system including implementation of new features, enhancements to the language engine, improvements and revisions to the parser, and refinement and updating of the syntax definitions defined in XSL and XSD in the Catchflow Schema Definition Packages associated with each release.
- Assure that the needs of the Catchflow programmers and Catchflow Solution Providers are well understood, making the language and features more robust so that workflow development becomes easier and easier.
- Fully document, at a technical level, all implemented functions, methods, new syntax, newly implemented XML language elements.
- Work interactively with Catchflow users to be sure they understand the system and to more fully understand their needs.
- Ensure the performance, quality, usability and responsiveness of solutions.
- Think outside the box to address current problems, new solutions, as well as gradually assist to reduce technical debt.
- Work with outside contractors and partners to assure that problems are well-defined so that implementation can meet needs effectively.
- Work with management to refine your job description at performance reviews and improve skills according to management requirements.

Primary job skills:

- 5 Years minimum experience developing and designing language implementations such as scripting languages, compilers or, parsers within user applications where scripting is an “enhancement feature” of the application.
- Be confident and experienced at using XML tools such as Saxon, lxml as well as iOS XML interfaces.
- Be confident and experienced in the use of XSD and XSL.
- Have experience building development tools (such as IDEs) for others to use.
- Have a thorough understanding of the iOS frameworks and mobile device operation as well as knowledge of backend server architecture.
- Knowledge of the Swift programming language.
- Attention to detail and good organisation skills.
- Outstanding engineering talent across a range of environments demonstrating flexibility and the ability to learn and adapt skills on the job. A passion for software development is essential.
- Have excellent communication skills and a strong ability to assess, estimate, plan and self-manage project work.

Additional skills:

- The application is written in Swift. While candidates with only Objective C experience will be considered, Deckhand relies heavily on the advanced features of Swift and we prefer candidates with such experience.
- AWS is the backend platform, so experience with cloud messaging APIs.
- Experience working Git management tools and CI/CD processes using tools like Gitlab.

- Results-driven thinking is important. Juggling short-term requirements with long-term needs will be an everyday task.
- Experience with performance and memory tuning with instruments and Crashlytics.
- Experience in a collaborative project team environment, working with a team of in-house developers to mentor and educate in development best approach principles and practices.

Personal requirements:

- Ability to use your initiative and handle and prioritise multiple requests from different sources and communicate these priorities.
- Be able to work both independently as well as with a team.
- Hold high standards of work quality.
- Commit to advancing RTD business objectives.