





# Rhys Keepence

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## Professional Summary

Over 20 years experience in many different industries, developing distributed systems and web applications. I am passionate about improving the way that software is developed, with a particular focus on simplicity and quality. I have plenty of experience of delivering high-quality applications which have been developed in a sustainable manner.


I use iterative planning methods, test driven development and pair programming to improve the design, testability and maintainability of software. I have introduced these methods into organisations for almost two decades in a developer and team-lead capacity.


I have over 10 years experience growing small high performing teams of engineers who enjoying working together, iterately delivering value to clients.

## Key Skills

[Functional Programming](#)   [Continuous Delivery](#)   [Pair Programming](#)   [Agile/XP](#)  
[Scala](#)   [ScalaJS](#)   [React](#)   [Haskell](#)   [Elm](#)   [CSS3](#)   [SQL](#)

## Open Source

 [Elm Websocket](#)—a library for creating a websockets server in Haskell, which automatically generates the Elm client code. This includes JSON codecs and data types, derived from the Haskell types.

 [Clairvoyance](#)—a specification-by-example testing framework that produces living documentation on the system's behaviour.

# Recent Experience

**Software Engineer**  
**Apple**

**01.2020-present**

At Apple I have focused on delivering the data governance platform within the Apple Media Products organisation. This platform has been instrumental in ensuring compliance with GDPR and Digital Markets Act, as well as Apple's own high standards of data privacy.

The system has over 500 active users and over 2,000 sessions per week.

**Senior Scala Developer—Contract**  
**Citi**

**03.2018-12.2019**

I lead a four-person team developing a new structured notes sales platform. Rather than develop the platform in isolation, we began by finding existing sales and trading users, tried to understand the challenges they faced, and built systems to improve their efficiency. We replaced the existing error prone Excel pricing spreadsheet with a web UI, and automated the generation of term-sheets. The resulting increase in sales year-over-year has been attributed to the automation.

We were a small, co-located team, with a large degree of autonomy over technical and project management decisions. Our technology stack was functional Scala using Typelevel libraries, with Typescript and ReactJS to build the UI.

**Senior Scala Developer—Contract**  
**Deutsche Bank**

**09.2013 - 03.2018**

Developed a front-office application for the lifecycle management of trades within Structured Finance. The project consisted of a small team of developers, responsible for talking to senior members of the business, building the system to capture the transactions, and supporting it in production.

On this application I championed a number of technologies within the team. The front-end was a single page app written in ScalaJS (on top of React). This allowed us to share data types, safely refactor across the entire stack, and write some pretty amazing abstractions to scrap boilerplate code.

**Senior Software Developer—Contract**  
**BSKYB - Sky Network Services**

**05.2010 - 09.2013**

Part of a small team to rewrite an application to communicate with telephone switches. I was the main driver behind the team adopting Scala. To meet the needs of the business, I authored a Scala end-to-end testing framework, which I maintained on Github and was well used outside of Sky.

I was also the team lead of an address matching application.

## **Other Experience**

Wiley Online Library - London

Suncorp (retail banking and insurance) - Brisbane

GE Energy - Melbourne

Queensland Government (Department of Industrial Relations) - Brisbane

Secure Interactive - Sydney

## **Education**

University of Queensland, Master of Information Technology Studies, 2004-2005

ACU, Bachelor of Information Technology, 1997-1999