

# Tim Kendrick

Senior TypeScript/React Software Engineer

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## Overview

Bright, enthusiastic hard-worker with over ten years' experience across multiple industries. Frequent open source contributor with high standards of documentation and testing. Excellent problem-solving skills, fast learner, and a keen eye for detail and aesthetics. I'm highly self-motivated and a very strong team member who knows how to design and ship quality products.

Equally comfortable building large-scale UI-driven applications, robust frameworks and libraries, in-house tools, or time-saving automation utilities, I love to tackle big problems and take pride in writing clean code built around elegant user-focused APIs.

## Frameworks / Technologies

Strong expertise in TypeScript, ES2015+, React/React Native, GraphQL/Apollo, Redux, Node.js, Jest, RxJS, lodash, Webpack/Babel, Electron, and various other buzzwords. I particularly enjoy functional coding, reactive/stream programming, and anything involving AST transformation/analysis. I like to learn new concepts from first principles, and have written lots of my own libraries for streams, transducers, virtual DOM, etc., to explore how these approaches work at a fine-grained level.




My hobby projects tend to focus on creating more efficient ways to program computers, often via new takes on existing editor paradigms. Lately I've been exploring compiler/interpreter design: current side-project is an innovative stream-based language implemented in Racket (cross-compiling to JS with additional JVM target planned), which I'm using to build a visual IDE.

## Selected Work History

- **April 2019 - December 2019:** [11:FS](#), Senior Software Engineer (freelance)
- **September 2018 - March 2019:** [Canvas Composer](#), Founder
- **August 2016 - August 2018:** [Deutsche Bank / DWS](#), Lead Open-Source Developer (freelance)
- **September 2015 - April 2016:** [Filecanvas](#), Founder
- **September 2013 - April 2015:** [Fathom](#), Lead Developer
- **February 2013 - August 2013:** [R/GA London](#), Senior Front-End Developer (freelance)
- **August 2011 - January 2013:** [Burberry](#), Senior Front-End Developer (freelance)
- **February 2010 - July 2011:** [Mohu](#), Lead Developer
- **Summer 2006 - February 2010:** [Ralph](#), ActionScript Developer

## Selected Open Source Projects

### Popular utility libraries

- [recursive-copy](#)  – Simple, flexible file copy utility
- [memoize-weak](#)  – Garbage-collected variadic function memoizer
- [memoize-bind](#)  – Memoized function binding
- Many more at [github.com/timkendrick](https://github.com/timkendrick) and [npmjs.com/~timkendrick](https://npmjs.com/~timkendrick)

### Larger standalone projects

- [Muster](#) (2018) – Reactive streaming data language for real-time client/server apps
- [Skivvy](#) (2015) – Modular task runner for reusable build systems
- [T-Bone](#) (2013) – Backbone.js view/binding component framework

# Selected Job Roles and Responsibilities

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## 11:FS (March 2019 - December 2019)

Lead React Native developer building a greenfield mobile app for a US retail bank's new challenger offering. Responsibilities include front-end architecture design, development of in-house testing framework and cross-platform styling tools, presenting technology-related talks, and interviewing potential new hires. Singlehandedly developed a fully-functioning prototype app within three weeks of arrival, with entire polished V1 release in users' hands within less than three months.

Primary technologies include TypeScript, React Native, Apollo/GraphQL.

## Canvas Composer (September 2018 - March 2019)

Singlehandedly built a large-scale IDE for rapid development of React applications ([canvascomposer.com](https://canvascomposer.com), currently in alpha). Intuitive UI builder allows toggling between visual drag-and-drop workspace and source code editor. Component library plugins and integrated zero-config build tools and allow rapid application prototyping within a graphical interface. Extensive static JSX source analysis of existing code allows prototypes to be seamlessly integrated within a real codebase.

Currently packaged as an Electron app written in React/Redux/Node.js, easily repurposable to be a hosted web service due to client/server application architecture and modular plugin system.

## Deutsche Bank / DWS (August 2016 - August 2018)

Lead architect/developer on a graph-based streaming data framework ([Muster](#), now open-source), used to power data-driven front-end applications across Deutsche Asset Management (now DWS).

Muster combines all an application's data – whether local or remote, synchronous or asynchronous – into a single unified virtual graph that seamlessly spans client and server, allowing client applications to manipulate remote data sources as easily as in-app data. Extensive library allows smart queries, live mutations, and limitless transformations on real-time data streams (mapping/filtering/combining/etc). Production users reported large productivity gains and vastly decreased bug count.

Project responsibilities included product direction, API/architecture design, core library implementation, development of bespoke unit-testing framework and browser plugin for developer tools.

## Fathom (September 2013 - April 2015)

Lead front-end developer for a highly interactive real-time corporate bond trading platform for [Tradeweb](#) and accompanying [component suite](#). Responsibilities included application architecture, development of in-house component library, performance tuning/profiling, internal build tools, technical leadership, teaching and supervising other developers, hiring new developers.

## Burberry (August 2011 - January 2013)

Development of all interactive experiences on burberry.com, creation of in-house JS/CSS Framework (used across all campaign sites, live streamed fashion shows, press kits and in-house tools), development of in-house internationalization tools, automation / build process improvements, technical research, hiring and supervising new developers.

# Academic History

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- **2005 - 2008:** Trinity College, University of Cambridge (BA degree in Philosophy, 2:2)
- **2003 - 2005:** Sevenoaks School (International Baccalaureate Diploma, 45 out of 45)