

# Chris Harrison

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## Summary

- I'm a proponent of domain driven design.
- I'm a proponent of event sourcing.
- I'm a proponent of GraphQL over REST.
- I'm a proponent of composition over inheritance.
- I write solutions which can scale across multiple machines by default.
- I write semantic, accessible and componentised (React) frontends.
- Due to working for many years in Asia I am experienced in localisation and i18n.

## Skills



## Senior Software Engineer, Funeral Zone Ltd

📅 November 2016 - Present

📍 Exeter, UK

- Nov 2016 to May 2017 I took charge of writing the Memoria app. Written in React Native as a hybrid app, it was released to the Play Store and App Store.
- Jan 2017 I wrote an Identity Service, which was a periphery microservice for the Memoria backend. The service handled our own OAuth2 tokens and 3rd party social media credentials.
- April 2017 I wrote a Notifications Service, which was a periphery microservice for the Memoria backend. The service handled all types of user notification (including push notifications) emitted by events within the Memoria domain. The system worked as a set of cross-referencing Amazon SNS channels for each user.
- June 2017 (to present) I began work on the backend of a new SaaS product for arranging funerals. The system is envisioned as a fleet of microservices. We are using Prooph for implementing an event sourced architecture. Most aggregate roots across the domain model are planned to be a separate microservice.
- Sep 2017 I worked on a CI/CD system for automatically building microservices as Docker containers and pushing them to Amazon ECR. The build system enforced unit test coverage of 90% and code conformance to the PSR-2 standard.
- March 2018 I implemented an 'event publisher' which hooked into the event store. It broadcast all persisted events to a message broker (SNS) so that other services are able to listen. I then wrote a websockets service which listened to all domain events and notified the client of their success.
- Dec 2017 I gave a talk about event sourcing at Tech Exeter: <https://bit.ly/event-sourcing-dec-2017>

## Software Developer, Microtest Ltd

📅 April 2016 - November 2016

📍 Cornwall, UK

- Wrote web based clinical software for use in the NHS. Worked within an Agile team with a 1:1 dev/tester ratio. All project cards had to go through code review and testing in order to pass. Evidence of this was recorded in order to meet NHS mandated standards.
- Worked to guidelines set by clinical safety officer.
- Developed a locum matching service for GP practices to book locum doctors into sessions. System handled the locums' PDF based invoices and NHS pension forms based on hours worked.
- Worked on a fast vaccination service. Ability for clinic leaders to specify vaccinations, vaccination routes/job sites and patients. Practitioner can quickly and easily record vaccinations into patient notes after vaccinations performed.

### **Lead Developer, Netcentric Ltd**

📅 January 2014 - April 2016

📍 Singapore

- Took over responsibility of a mobile app called Dayre - a popular social media platform in the Asia Pacific region. Has 500k users and 100 req/sec and above regularly hitting the API. Service requirements were high traffic / high availability.
- Acted as line manager to a technical team of 7 made up of developers and designers.
- Responsible for working with product manager and CEO to plan new features, architect software and document existing systems.
- Responsible for hiring. Also, mentoring team, introducing best practices and reviewing new technologies.
- May to Nov 2014 I oversaw the migration of the backend (as well as the iOS and Android clients) from a service called parse.com to a PHP/SQL/Redis backend hosted on AWS. We increased the average response time from 2 secs to 50ms.
- I wrote a completely custom JSON parser to convert 100GB of parse.com JSON data into SQL. Because speed was important for minimal downtime, it was designed to work in parallel across multiple machines without introducing any inconsistencies in the data.
- Implemented the web frontend at dayre.me. The website acts as a frontend client, accessing the backend over our REST API.
- Jan to March 2015 I rewrote the Dayre iOS app from scratch in Swift.
- Mid 2015 spent time optimising image uploads and geo-locating the CDN's DNS to save costs.
- Nov 2015 I started the process of migrating from AWS to Azure as part of a partnership with Microsoft.
- Developed a "fan-out" NoSQL based user feed system using publish/subscribe pattern and Redis.

### **Senior Software Developer, Induxive Sdn Bhd**

📅 September 2012 - January 2014

📍 Johor, Malaysia

- Worked on a variety of medium sized client projects. Area of responsibility was frontend and backend development.
- Clients included:
- MGP. One of the top fashion ecommerce stores in Singapore. Prestashop implementation with 8 custom modules written for the project. (<https://mgplabel.com>)
- Sheraton Hotels. Custom PHP framework and backend.
- Toytag. Specialist toy retailer in Singapore.
- Viva Creation. Large retailer and manufacturer of designer smartphone accessories across Asia. (<http://vivacreation.com>)

### **Senior Web Developer, Ripplewerkz Pte Ltd**

📅 April 2010 - September 2012

📍 Singapore

- Developed imotiv.ly a blog aggregating platform. Part of the Nuffnang blog advertising network with over a million blogs and present in over ten countries in Asia and Europe. One of the design goals was that the web crawler would reflect any change in the 1 million strong index within a maximum of 5 minutes.

- Developed a patent-pending summary system to grab the most 'interesting' sentence from a blog post. Involved natural language processing (NLP).
- Led the development of propmatch.com a property portal for Singapore that was receiving 70,000 uniques per month at its peak.
- Worked on client projects such as microsites, Facebook applications and larger scale web applications.
- Clients included Peel Fresh, Pioneer, United Nations, Nissan, Love Bonito (Singapore's largest online fashion retailer), Jipaban, Nuffnang.
- Wide experience integrating with third party APIs. Payment gateways, REST etc.
- Developed over twenty modules for the open source eCommerce platform Prestashop.

## **Web Developer, Ren Media Ltd**

📅 May 2009 - April 2010

📍 London, UK

- Built in-house classifieds websites for marketing UK companies to China.
- Extensive experience of localisation/i18n for Chinese users.

## **Education**

Bachelor of Arts Upper Second Class, Middlesex University (2009)