

# Bill Hedworth

Bristol

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## Profile

Career JVM developer with 10 years of Clojure experience. I'm a pragmatist with a track record of delivering modern software solutions on a large commercial scale. Have a keen passion for tech and enjoying keeping abreast of modern frameworks and ways of working. I have a lot of experience in working on large scale microservice event streaming platforms across multiple cloud providers and looking for a agile environment where I can put this experience to use.

## Qualifications

### University of Wales

2:1 BSc (HONS) COMPUTER SCIENCE

Aberystwyth

September 2000 - May 2004

### Coleg Ceredigion

BTEC NATIONAL DIPLOMA IN IT APPLICATIONS

Aberystwyth

September 1999 - June 2000

### Penglais Comprehensive

2 A-LEVELS, 10 GCSE'S (A-C)

Aberystwyth

September 1992 - June 1999

## Employment

### OVO Energy

SENIOR SOFTWARE ENGINEER

Bristol

2016 - Present

I currently work on OVO groups Kaluza platform which is a new realtime intelligent energy platform built for utilities to manage a modern energy grid. I've worked on it since its inception and have been central in designing and implementing some of its core event streaming microservices on top of apache Kafka

- charging pipeline, set of clojure services
- flows, bridge for translating energy industry transactions files on and off of Kafka
- payments, 3rd party payment provider worldpay integration
- probably something else

### LINE Corporation - MixRadio

SENIOR SOFTWARE ENGINEER

Bristol

2014 - 2016

With MixRadio being sold to LINE corporation by Microsoft my role was a continuation from that at Microsoft.

- I recently developed a full stack Clojure and ClojureScript service which enabled in house mixmasters to manually tweak MixRadio's recommendations engine.
- I Integrated Salesforce with MixRadio's internal CRM system. A Clojure service which extracted all relevant data from Salesforce and parsed it to AWS SQS and persisted it to Redshift.
- I produced an EMR processing pipeline to transform our massive user taste profiles into a suitable format and export it to Salesforce for recommendation emails.
- I've written various Cascalog and Pigpen Big data flows over millions of user events to support and improve music recommendations eg find and boost emerging "hot" tracks.

### Microsoft

SENIOR SOFTWARE ENGINEER

Bristol

2013 - 2014

Microsoft purchased Nokia's mobile business. My work was focused even more on the core music recommendations of the business building fault-tolerant, performant Clojure services and data processing at scale.

- Played a key role in creating a complex music recommendation service for similarly liked tracks and artists. This replaced the 3rd party reliance on The EchoNest. Built with Clojure on DynamoDB.
- I built a highly performant microservice to match track and artist metadata to MixRadio's internal representation.
- I created a service to warehouse client user events from Kafka to S3, encrypting any sensitive user data.

- I designed and produced a service to produce new album release events no notify intrested users, in Clojure on MongoDB.
- I built up the majority of MixRadios client 'views' API, it produced customised views of JSON data allowing clients to build their pages, coded in Java and Spring.
- A key contributor to MixRadios core services:
  - Users music taste profile service, based on MongoDB in Clojure.
  - An API to serve session based curated mixes, in Clojure and Redis.
  - The music catalogue and search engine, based on Java, MySQL and Apache Solr.

## Nokia

SENIOR SOFTWARE ENGINEER

Bristol

2009 - 2013

During my time at Nokia I transitioned from automated tester, to a full time Java and then Clojure developer. My role from newest to oldest:

- *Developer:* Designed and built key services to provide mobile phone notifications to millions of users.
- *Developer:* In 2012, I joined a small team working on Nokia's first production Clojure services with the ultimate aim to replace our 3rd party integration with The EchoNest.
- *Developer:* Nokia ceased to support Meego and I moved into full-time Java development. I was one-half of a pair that integrated with a 3rd party company, The EchoNest. Integrating their music recommendations produced Nokia music's first iteration of its internet radio (later to be called MixRadio). This was a Java and Spring based service.
- *Build Manager:* I became the Bristol office's package manager for the Meego (Linux-based) operating system. I was responsible for integrating Bristol's music software into the Debian based operating system via apt package management.
- *Testing:* Developed both a front end web test frameworks around JBehave and Selenium2. An also a FitNesse suite to test a large scale music search engine. This mainly involved writing fixtures in Java to enable less technical testers to write wiki based tests.

## Alterian

SENIOR AUTOMATED TEST ENGINEER

Bristol

2008 - 2009

A UK-based supplier of marketing automation software and services. I was their sole automated tester and worked on their "Next Generation" web-based platform.

## Experian (Decision Analytics EMEAI)

SENIOR AUTOMATED TEST ENGINEER

Bristol

2006 - 2008

Talgentra was acquired by Experian, I progressed into a more senior automated testing role.

## Talgentra

JUNIOR SOFTWARE ENGINEER

Bristol

2004 - 2006

Talgentra produced utility billing software for electricity, water, gas and telecommunications. This was my initial introduction to Java, writing some Junit and automated acceptance tests.

## Skills

<b>Programming</b>	Clojure, Java, ClojureScript, JavaScript, C#, Golang, Ruby
<b>Clojure</b>	Ring, Core.async, Midje, Schema, Compojure, Amazonica, Lein, Boot
<b>ClojureScript</b>	Reagent, Dommy, Hiccup, Figwheel
<b>Java</b>	Spring, RESTeasy, Hystrix, Jersey, Hibernate, Maven, Nexus, Jackson
<b>Database</b>	DynamoDB, MySQL, MongoDB, Redshift, Redis, Memcached, Neo4j
<b>BigData</b>	Cascalog, PigPen, Hadoop, Cascading, Pig, Hive
<b>Message Queues</b>	SQS, Kafka
<b>Web</b>	React, Bootstrap, AngularJS, JQuery, Node.JS, Chrome Extensions
<b>General</b>	Linux admin, AWS, VMware, VBox, Jenkins, Git, Scrum, Kanban, REST, JSON, XML

## Interests

Keen IT enthusiast, I have a passion for all things tech related and enjoy my PC gaming. A keen supporter of open source

software, I try run Arch Linux on everything I can. Passionate about music and a bit of an audiophile. Enjoy sports, go running most days, completed many obstacle course races, also a keen cyclist and can be pretty geeky about my bikes.