

# ASHLEY MORGAN ANDERSON

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As a software engineer with nearly ten years experience, I have had the opportunity to work with many different people and with many different tools and technologies. Most recently I have worked as part of a scrum team towards with a behaviour driven development methodology, building a software as a service platform for managing and optimising clinical trials. Being able to express and communicate ideas well, in addition to having the ability to solve technical problems have been an everyday occurrence, all while striving to maintain the high level of quality our customers expect.

## EMPLOYMENT

### REED BUSINESS INFORMATION

September 2016–...

### BRITISH AIRWAYS

January 2015–June 2015, November 2015–January 2016

### ADAPTRIS LTD

March 2014–September 2016

SOFTWARE ENGINEER/SOFTWARE CONSULTANT

#### Technologies

GWT, BouncyCastle, Tomcat

#### Languages

Java, MySQL, Javascript (including jQuery), JSON, XML/XSLT

#### Environments

J2EE, GNU/Linux, Windows, Cygwin

#### Projects

Interlok: crypto, failover; XSLT/XML mapper

At Adaptris I was involved in many aspects of the software development process, both as part of a team and individually. This continued even after we became part of RBI. Work ranged from working on core components of Interlok, such as a rewrite of the internal cryptographic API and the multiple host redundancy failover to standalone projects such Xapper, the web-based (GWT) XML-XSLT mapper.

Whilst at British Airways I was part of a consultancy team that not only provided Interlok integration for BA, but also helped to prototype a new passenger notification system, which would alert passengers to flight status changes, including gate changes and baggage carousel updates.

### MEDIDATA SOLUTIONS WORLDWIDE

January 2012–February 2014

SOFTWARE ENGINEER

#### Technologies

Rails, Cucumber, jQuery

#### Languages

Java, Ruby, Cuke, MySQL, Shell Script, Javascript, Velocity, XML

#### Environments

J2EE, GNU/Linux, OS X

#### Projects

Clinical Trial Management System, EDC/CTMS Integration, Test Automation

Whilst at Medidata Solutions I have worked as a member of an agile scrum team in various different roles as necessary to progress our understanding as a whole. My team was involved with one of Medidata's most important projects through-out 2012: the integration of their home-grown EDC (Electronic Data Capture) system and a newly acquired CTMS (Clinical Trial Management System). It was a fantastic opportunity to grow as an engineer, increasing my existing knowledge of both Java and MySQL, in addition to learning new technologies such as Ruby and Cucumber. Initially I was using Ruby alongside Cuke for automation testing (of which I was the leading engineer, often attending conferences and relaying information back to the rest of the team) and more recently, throughout 2013, to slowly replace the suite of large monolithic products with a collection of interconnected web services to provide a coherent cloud-based solution for our customers.

Being an employee of an American multinational cooperation has also given me the opportunity to experience working with many people of different nationalities and with the added challenge of communicating across different timezone.

**APPLIED CARD TECHNOLOGIES LTD. (*Smart Transactions Group*)**  
SOFTWARE ENGINEER

August 2007–December 2011

### **Technologies**

GWT, OpenCV Image Library, Twain, OpenSSL, Glassfish, Tomcat

### **Languages**

C, Java, Oracle SQL/MySQL, JavaScript

### **Environments**

J2EE, Win32, WinCE, GNU/Linux, Unicapt32, Telium/Telcapt

### **Projects**

Embedded Financial Applications, Web Applications/Services, Webserver, Image Processing

Through much of my time at ACT I worked as part of a small team (1 of 3). Our primary application was a contactless, cashless, payment system, aimed at the low-value transaction market, and has been especially successful in schools and on university campuses as a way of eliminating the need for students to carry cash. The two components of this system are the low-level, terminal application—written in C—with which the customer interacts to perform transactions, and the server—written in Java—which process transactions, keeps records in an Oracle database, and provides a web service interface for customers and merchants to keep track of their accounts.

While much of my day consisted of writing code, as a member of a small team, I was also involved in all aspects of our projects life-cycle. This includes regular design and roadmap meetings with the customer, in addition to writing and reviewing design documentation and following this through to release notes, and customer support as needed.

In addition to this, occasionally, I was also tasked with assisting other teams within the company. These were usually one-off units of work: a webcam face detection application, using the OpenCV Image Library; and a web-based front end for an EPOS system, which was built using the Google Web Toolkit.

## **EDUCATION**

**UNIVERSITY OF EXETER**

October 2003–June 2007

COMPUTER SCIENCE BSC 2:2 (HONS)

### **Final Project**

A Steganographic File System for the Linux Kernel

### **4<sup>th</sup> Year Modules**

Final Year Project, Dissertation, Compilers and Interpreters, Logic and Computation, Connectionism, Enterprise Computing, Internet Networking B

### **3<sup>rd</sup> Year Modules**

Forensic Science, Foundations of Computer Science, Information Systems II, Graphics, Symbolic Artificial Intelligence, Web Programming, Design and Method

### **2<sup>nd</sup> Year Modules**

Programming, Project I, Aspects of Artificial Intelligence, Introduction to the Systems Level, Information Systems I, Media Computing I, Formal Notations and Methods, Social and Professional Issues

### **1<sup>st</sup> Year Modules**

Vectors and Matrices, Statistics, Probability and Discrete Mathematics, Dynamics, Calculus and Computing

## **PERSONAL**

As a way to progress my programming knowledge I occasionally work on a handful of software projects, most of which have been released as Free Software. My hope was that while I continue to expand my abilities down an avenue that interests me personally, I might be able to provide somebody with a tool or an application which they may find useful.

These projects include a desktop file encryption application (portable across Microsoft Windows, GNU/Linux, Apple's OS X, FreeBSD, and Android), and a FUSE-based Steganographic File System, which has evolved from my final year university project.

Further details are available online primarily at <https://albinoloverats.net> and <http://ashley.anderson.io>, as well as <https://github.com/albinoloverats> or <https://bitbucket.org/albinoloverats/>.

Some of my hobbies include Skiing/Snowboarding, Running, Hiking, Travelling, and Formula 1.