

# Angus P. B. Mack

6+ years Autonomy IDOL server and Virage (1yr Cardiff Liquid Office) on Microsoft and Unix, – 4+ years Java (1yr Spring MVC) – 3 years JavaScript with AJAX (Prototype), Vignette JSR168 portlet development on VAP, 3 years C/C++, plus a wide variety of technologies: XML, XSLT, HTML, CSS, SQL, JSP, MFC, COM, ActiveX, VB, some ASP.NET/C# and UNIX (shell scripting) – knowledge of web and application servers IIS/Apache/Tomcat/Resin and database servers MSSQL, MySql and Oracle – developed intuitive interfaces for complex systems – excellent analytical skills – good communicator – have worked both in teams and on my own initiative – speak good German and French

## PERSONAL INFORMATION

Date of Birth: 15/01/1977  
Marital Status: Single  
Telephone: 01353 610216  
Mobile: 07928 085114  
Email: angus@sugnation.com

Nationality: British  
Driving license: Full, clean  
Address: 88 Cambridge Road  
Ely, Cambridgeshire  
CB7 4HU

## WORK HISTORY

### GolleySlater Digital

December 2008 –

*Ongoing supply of ad-hoc development services, primarily around their client's Java/MySQL installation.*

### Java Struts and MySQL v4/5 developer

I delivered updates to the Internet Watch Foundation's (IWF) adult and malicious content reporting site. IWF analysts get sent reports of URLs that contain unsuitable content and have a system to manage these and verify the contents of the pages reported.

I have been responsible for numerous user interface changes to augment the current functionality, writing new SQL queries for more specific search criteria and also adding new tables to the database and altering its schema to match the new requirements.

### Ioko

June 2008 – August 2008

*3 month contract developing a Media Monitoring application using Autonomy/Virage platform and Vignette JSR168 compliant portlet development for Autonomy search.*

### Virage/Autonomy consultant & Java developer

Media monitoring application:

- Installed and configured multiple VideoLoggers with Softsound speech to text as well as other media analysis plugins in order to monitor various UK TV channels
- Developed web application to allow users to register and setup stored searches and alert them to when their search terms were mentioned on TV
- Configured Index Tasks module in IDOL server to classify and alert via HTTP on document index
- Java Spring MVC and Hibernate (with HSQL for local and MySQL for production storage)

Vignette Autonomy Search Portlet:

- Developed a JSR168 compliant portlet in order to search Autonomy IDOL server
- Implemented regular search results as well as results clustering (guided query navigation)
- Configurable user database access through the portlet's admin configuration view
- Deployed on VAP 7.2 (BEA WebLogic 8.1)

## **UBS Investment Bank**

May 2008

*3 week contract developing a Proof of Concept Java web application for research and data mining to be used by bankers.*

### **Autonomy consultant & Java developer**

Configured Autonomy IDOL server in a secure environment:

- Document level Access Control Lists (ACLs) were fetched from an Oracle database
- Content fetched from Oracle database and the web (ODBC/HTTP fetch)
- User base populated in Autonomy from an Oracle database
- Configured generic unmapped security environment whereby user's group and user entitlements are checked against the indexed ACLs stored with each document at query time.
- AJAX was used for front end query result handling to improve user experience (different data sources had different query criteria and took a different amount of time to respond)

## **UBS Investment Bank**

August 2007 – December 2007

*Undertook contract placement in order to develop the new Compass Search intranet search application, powered by Autonomy and written in the Java Spring MVC framework.*

### **Senior Java developer**

The requirement was to implement a replacement search application for the UBS IB intranet and to introduce some new features offered by the Autonomy platform (the previous search technology being Verity).

I was the sole developer on the project responsible for:

- Interpreting and implementing the existing brief design specification
- Showcasing new Autonomy features for the application previously not considered
- Introducing AJAX requests for recommending other documents based on the current selected search result
- Time management, regular technological updates and demonstrations with the project sponsors
- Documenting the finished application, both for developers and for end users
- Learning the Java Spring MVC framework development methodology
- Writing J-Unit test cases for complete application
- Working to tight deadlines in a bank environment

## **The Content Group Limited**

June 2006 – July 2007

*The Content Group is a one-stop source for the provision of integrated Enterprise Content Management (ECM) Solutions from SMB to Enterprise level.*

### **Senior Developer**

My key responsibilities at The Content Group were around developing and deploying Autonomy's IDOL server platform at enterprise level as part of an overall ECM solution package. I was involved in the complete project lifecycle from pre-sales through to requirements capture, generating design specifications, installing and configuring the software, generating test matrices and then delivering training and supporting documentation. I was also responsible for JSP development around customising Portal-In-A-Box for client branding, exposing other internal applications and developing new portlets (e.g. local weather information or news tickers).

The Content Group also partners with EMC, Cardiff, INVU and several other key ECM vendors – I've had direct experience in integrating these applications with Autonomy and surfacing them through a single portal application. This includes Autonomy's Portal and also Microsoft SharePoint 2003.

I was also responsible for designing and developing The Content Group's own intranet portal application based on Autonomy's Portal-In-A-Box and integrating this portal with the company's own internal applications: INVU, iMarkup, company website and ECM related websites news feeds.

### **Trajectoris Limited**

April 2005 – May 2006

*Trajectoris was set up to provide expert services and consultancy for customers of the complete suite of Autonomy software.*

#### **Lead Business Development Manager and Senior Consultant**

I was solely responsible for starting up the business and involved in every side of company operations, including: lead generation, sales, technical consultancy, services, marketing, payroll (PAYE/NIC) and VAT, as well as full control over the development of the corporate website and production of other marketing materials.

The company made a profit and generated a top-level income (nearly all from repeat business) due to the high quality of the work delivered and our previous reputation. This was enabled through the years of combined Autonomy and Virage experience the company had.

Key clients included The Environment Agency, BT Retail, for whom we have delivered customised JSP search portals based on Portal-in-a-Box to give increased productivity for customer fault resolution, and BBC Broadcast, for whom C# code objects were delivered for search and recommendation functionality, which is used in the Interactive Media Player (iMP) application (now BBC iPlayer).

### **Colbenson Limited**

Oct 2004 – April 2005

*Colbenson was the sole provider of Autonomy Education – the official certified training partner for Autonomy Systems - delivering world class training courses at Essential and Advanced levels to many different multinational companies. Colbenson was also responsible for managing the installation and configuration of Autonomy software around the world and was recognised as one of Autonomy's premier partners.*

#### **Senior Consultant and Trainer**

As a consultant I was involved in the sales cycle from the beginning, guiding the process to ensure that adequate time was given to the implementation stage, offering advice as to the best choice of software components, solving logistical problems during deployment, being on site to answer client's questions, providing full documentation on what work had been done and why, and offering full back end support while on site.

As a trainer I was responsible for delivering Colbenson's world class training material onsite and offsite, both here in the UK as well as in the US (Washington and San Francisco). An intimate knowledge of all Autonomy's software in real life deployments helped us give the students a unique understanding of how their system should be used and configured to their best advantage.

### **Autonomy Systems**

Jan 2004 – Sep 2004

*Autonomy is a global leader in enterprise infrastructure software for automating the processing of unstructured information. One of the most successful IT startup companies in the UK, it grew from 10 employees in 1996 to over 200 worldwide by 2001.*

#### **Pre Sales Manager for Virage in EMEA**

(Autonomy acquired Virage in September 2003)

I was involved closely in the difficult task of merging existing Dremedia and Virage technologies post acquisition. I also acted as the liaison between the development team and sales force. My regular duties involved:

- Responding to RFPs and RFIs
- Managing a team of Service Engineers, overseeing POC installations
- Liaising with Sales Executives to make sure product was properly represented
- Ensuring the correct information was available to all involved in the sales process
- Talking both technically and commercially at seminars
- Worldwide travel (Europe, Middle East and United States)
- Managing installations post sale (customer relations, training and services)
- Careful time management due to the reactive nature of the company and multiple tasks involved
- Still very much a hands-on role and continued on from my last position – installing products, customizing and fixing code on site, some core development work and also developing, installing and maintaining the sales demo systems.

## **blinkx**

### **GUI design developer and consultant**

I was involved from the outset in the development of a new product that hooks into other user applications and uses Autonomy technology to automatically provide suggestions to documents, web pages and emails similar to those that the user is working with.

- Client-side built using Visual C++, MFC & Win32
- Communication implemented using XML over HTTP
- Implemented the first user interface for blinkx using custom windows, list boxes, scroll bars and other controls
- Consulted on key development issues of the blinkx user interface and involved in key UI design decisions
- Rapid implementation of new features to meet design feedback

## **Dremedia Limited** (An Autonomy Company) **Lead GUI Developer**

Oct 2001 – Dec 2003

A very high powered start-up environment, small software team, rapid development of product to meet new feature requests, development of scalable enterprise solutions from the outset, exposure to all sides of company management including sales and marketing.

I developed the Windows GUI for a video asset management system, which allowed search and retrieval of video based on automatically generated metadata from AV analysis techniques such as: speech recognition, scene change analysis and speaker identification.

- Developed test UI in VB6 and then full implementation in C++ (MFC in Microsoft Visual Studio)
- All client/server communication done in XML
- Used Autonomy IDOL server as backend data store
- Multiple language XML data, encoded in UTF-8 and displayed in UNICODE
- Supported interface for display of English, French, Spanish, Italian, Greek and German languages
- Wrote an ActiveX Control for the Video player with an XML parser for the metadata view, and a COM DLL for utility types and functions
- Wrote a reporting tool that used XSLT to transform search result summaries from XML into HTML
- Exposure to video streaming technologies (Microsoft, Real, QuickTime, MPEG) using MMS and RTSP streaming servers
- Experienced in video capture and encoding (for web distribution)
- Interfaced with DirectShow powered backend servers
- Complete control over the design and implementation of the product
- Tested all software, designed and wrote branded InstallShield installers
- Installed and configured software on site where necessary

- Talked at a technical level at sales meetings to facilitate new business
- Travelled on site in Europe and the United states to install and maintain software, as well as maintaining partner relations

**Racal Avionics** (now Thales Avionics)  
**Software Developer**

Sep 2000 – Sep 2001

**Radio and Navigation update to a Lynx Helicopter** - I was responsible for the test software and hardware that was used to verify the functionality of each module. It used a fibre optic IO card and a supporting PC application to emulate the different module's functionality. This involved:

- Writing a GUI in Win32 Platform SDK, to:
  - send any internal data type to any module
  - show a graphical representation of the system data
  - show a pictorial view of audio sent and received in the system (for timing digital delay)
- Following the full software development lifecycle of requirements capture, design documentation, design implementation, test procedure development and test matrices
- Creating and then reading back automation scripts for advanced testing
- Designing and developing a Kernel Mode device driver for the IO card, written in the Windows NT Native API
- Attending various project planning and management training days as part of IEE training

**Pilkington Optronics**

Summer 1999

Second summer of work – taught myself COM and hence rigid Object Oriented coding in C++. This was to write a local server that routed commands from a GUI for an infra-red camera (GUI developed elsewhere) to the relevant destination (serial port, sensor head, graphics card etc.) – experienced working to protocols, deadlines and developing code along side and separately from out-of-house clients.

**Pilkington Optronics**

Summer 1998

I worked on numerous software projects, including writing a data search and extraction utility for field trial data and a program to implement spatial filtering algorithms, both in C++

**Oxford University Press**

Summer 1997

I worked in the orders department, managing inspection copy requests of academic titles, checking information on databases and general office administration.

**Nortel Networks**

Aug 1995 – Aug 1996

Year in Industry placement in the Optical Communications Branch, Array Technology and Packaging Dept; involved in design, testing and development of various fibre optics projects. Binding lasers to silicon substrates, developing and testing transmitter/receiver packages including work on an innovative isolator transmitter package, for which I won an award. Maintained a work diary, wrote reports on jobs done and delivered end of year presentation to all the scheme participants.

## **ADDITIONAL SKILLS AND EXPERIENCE**

**Six week project management course** (June 2001) – designed and built a robot to pick up balls for wheelchair bound bowlers players. Planning, time management, resource management, meeting tight deadlines, learning new skills (welding), overcoming problems and finding workarounds, managing absenteeism, explanation of project to the board, tough design decisions, demonstration of finished product, including production cost estimates and marketing ideas.

**NEBSM Certificate in Supervisory Management** as part of the Year in Industry scheme (1996)

**Engineering Education Scheme's** Higher Education Experience at Birmingham University (July 1994)

**Peugeot's Ryton Plant** - Post GCSE Work Experience at with a Production Engineer (July 1993).

**Exchange visits** – Made regular visits to families in Europe: four times to France and five to Austria (1989 -1993)

## **EDUCATION**

|             |                                                                                                                                                                                                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1997 – 2000 | Imperial College London – BSc in Physics<br>Final year options: Laboratory Projects – made digital remote control for a video recorder using a 68000 microprocessor programmed in assembly language (1 <sup>st</sup> class award) Electronics, Instrumentation, Computational Physics, Optical Communications & Macro Economic Policy |
| 1990 – 1995 | Rugby School, Warwickshire – (Scholar)<br>10 GCSE's – 9 As and 1 B<br>A Levels – Physics (A), Mathematics (A), Further Mathematics (B), German (B)                                                                                                                                                                                    |
| 1984 – 1990 | Beeston Hall School, West Runton, Cromer, Norfolk                                                                                                                                                                                                                                                                                     |

## **INTERESTS**

**Music** – listening to all sorts of music; playing, DJing and creating electronic music; learning guitar and piano

**Computing** – learning more programming techniques at home (website design XHTML/CSS, DirectX games programming); using music software to be creative, recording DJ mixes; photo editing; CD production

**Electronics** – practical projects: high power amplifiers

**Woodworking** – PA speaker cabinet construction, basic furniture making

Also, when I can, I enjoy walking, sailing, skiing and fishing