

David Asboth

Experienced software and web developer with an MSc. in Data Science, looking to use a combination of technical, analytical, and communication skills in a data science focused role.

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EXPERIENCE

MSc. Data Science Thesis Project – Resonate Group Ltd.

JULY 2016 - JANUARY 2017

- Built a model to forecast the state of disruption on the rail network
- Used cutting edge machine learning techniques, e.g. neural networks
- Cleaned, processed, and analysed complex and large scale rail data
- Liaised with domain experts to incorporate their knowledge and feedback

Solutions Architect (contract) – Banks Sadler Ltd.

FEBRUARY 2015 - AUGUST 2015

- Implemented a new global reporting solution, moving from static Crystal Reports to interactive web-based reporting
- Reduced reliance on IT to produce reports, empowering business users to create ad-hoc reports
- Solely responsible for entire lifecycle starting from the business case, procurement process, documentation, implementation and training
- Created custom RFID touchpoints using Raspberry Pis and Python
- Mentored other developers and improved release cycle processes

Senior Analyst Programmer – South Bank University

MARCH 2014 - FEBRUARY 2015

- Developed additional features for student and staff facing portal (ASP.NET)
- Integrated student appeals management software with third-party services
- Built on and improved consistency of RESTful web service architecture
- Delivered customised solutions (a bulk texting application and a custom package manager) from minimal initial specifications
- Audited & improved technical team processes (e.g. migration to Git)

SKILLS

End-to-end software solutions development

Data analysis

Machine learning

Data cleaning

Stakeholder management

LANGUAGES & SOFTWARE

Python data science stack: numpy, pandas, scikit-learn, matplotlib

C#, ASP.NET (MVC 4)

JavaScript - jQuery, Backbone

PHP - CakePHP, WordPress

HTML, CSS

SQL Server, MySQL

TOOLS

Visualisation: Tableau

IDEs: Visual Studio, PyCharm, Jupyter Notebook

BI tools: Crystal Reports, Logi Info

Source control: Git, SVN

Deputy Team Lead – Banks Sadler Ltd.

MAY 2013 - MARCH 2014

- Worked closely with IT Director to plan product roadmaps
- Developed business critical finance projects such as automation of invoice creation, saving hundreds of man hours
- Release cycle management
- Day-to-day management of a team of 6 developers

Systems Developer – Banks Sadler Ltd.

FEBRUARY 2011 - MAY 2013

- Developed new features of event management software used by 150 people, initially with C# WinForms, then ASP.NET MVC 4
- Heavily involved in planning and rewriting of legacy company software as an ASP.NET MVC 4 web application
- Created database maintenance jobs using SQL and SSIS
- Implemented management information solutions using Crystal Reports
- Integrated third-party services to create automated invoice payment system

CERTIFICATIONS

PRINCE2 Project Management – Foundation Certificate

2014

Web Applications Development with Microsoft .NET Framework 4 (Microsoft MCTS 70-515)

2013

EDUCATION

MSc. Data Science – City University of London

SEPTEMBER 2015 - JANUARY 2017

Modules:

- Principles of Data Science (using Python)
- Big Data (using Apache Spark)
- Machine Learning (using MATLAB)
- Neural Networks (using MATLAB)
- Visual Analytics (using Tableau)
- Data Visualisation (using Processing)
- Software Agents (Reinforcement Learning using Python)

BSc. (Hons) Computer Games Technology (First Class) – University of Abertay, Dundee

SEPTEMBER 2006 - SEPTEMBER 2010