Dr. Will Faithfull

Experienced Developer and Project Lead with Data Specialism

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🔖 goo.gl/7cXopN

Education ────────

PhD – Unsupervised Change Detection in Multivariate Streaming Data | Bangor University | 2018 | Supervisor: Prof. Ludmila I. Kuncheva

BSc (Hons.) Computer Science | Bangor University | 2011 | First Class

Skills ────────

Software Engineering: Java, Spring, Maven, Gradle, JUnit, Groovy, JavaFX, Jackson, JPA, Hibernate, SQL, Neo4J, C#

ML / Data Science : Python, Matlab, Jupyter, spyder, keras, pandas, scikit-learn, spaCy, nltk,

Databases : PostgreSQL, MySQL, Neo4J, Firebase, Splunk, Cassandra

DevOps : Gitlab, Git, Docker, Kubernetes, Ansible, Terraform

Operating Systems: Ubuntu, Windows

Cloud: AWS, GCP, Azure

Other ────────

Data Engineer @ CoinMarketMood
- Real time sentiment analysis and data aggregation from social media
- www.coinmarketmood.com

Blink Detection
- Final chapter of PhD was a fully fledged eye-blink detection system from streaming video.

One World Hackathon (Charity event)
- Leading role in the team that conceptualised, designed and built a pledge site for the One World Strong Foundation in 26.2 hours
- www.oneworldmarathon.org

This CV is written in LaTeX

Experience

2020 — Data Engineer (Contract) — Equal Experts | HM Revenue & Customs, London
Security cleared consultant working in transaction monitoring & fraud detection. Data Science & Engineering at Petabyte scale. Python, Terraform, Spark, Splunk, Kafka on AWS.

2020 — Developer (Contract) — Equal Experts | HM Revenue & Customs, Manchester
Security cleared consultant building a novel big data pipeline for HMRC. Java, Python, Terraform, Spark, Neo4J on AWS.

2019 — Java Developer (Contract) — Sky, Leeds
Kubernetes migration of the Sky identity platform, which provides authentication and authorisation for all Sky products, NowTV and NBCUniversal's new video streaming platform, Peacock. Working with production systems serving millions of concurrent users. Agile environment with TDD.

2015-2019 — Lead Java Developer — Infinity Business Advancement Systems, Cardiff
Lead an all-remote team of 4 developers working in Java / Typescript. Established and managed agile software development process. Product is a mobile app served by RESTful Spring Boot services deployed on Kubernetes. OAuth2 authenication. Client apps for Android and iOS.

2017 — Senior Developer (Contract) — Psychology Dept, Bangor University, Bangor
Back-end lead on a a biometric data aggregation platform in Java / Spring for a subject emotional arousal tracking and intervention system using ANT+ heart rate monitors and Android devices. High volume data storage and querying using PostgreSQL 9.6 with JSON Columns.

2014 — Senior Developer (Contract) — Betsi Cadalwadr University Health Board, Bangor
Back-end lead on a study into the feasibility of digitising front-line nursing data collection and dissemination. Project was an ASP.NET SOAP API that stored and retrieved loosely structured patient data and performed automatic document (.docx and .pdf) generation from templates populated with this data.

2013- — Co-Founder, Managing Director — Sourcepulp, Bangor
Consultancy, contracting and IP development. Numerous short term consultancy and contract customers.

2013 — Lab Robotics Developer (Contract) — Bee Robotics, Caernarfon
Developed standards-compliant embedded software for lab robotics in C# (.NET 3.5). Software is a WPF GUI application running on Windows Embedded 7 which orchestrates all the components of the robot by issuing commands over USB and to an attached FTDi board. Shipped on the RoboBlot system.

2011-2015 — Senior Demonstrator — Bangor University, Bangor
Prepare and deliver courses to undergraduate students. C#, LaTeX, Linux System Administration, Pattern Recognition and Neural Networks, Java Programming 1, 2 and 3.

Awards

2014 — Bangor University Impact & Innovation Award
Sourcepulp - WardHub Smart Ward System

2014 — Bangor University Entrepreneurial Award
Sourcepulp - WardHub Smart Ward System

2012 — IEEE VAST Challenge Honourable Mention
SitaVis - Interactive situation awareness visualization of large datasets

2011 — British Computer Society Prize
Top of cohort in Computer Science