


Dr. Will Faithfull

Experienced Back-End Developer and Project Lead

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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, C#, Typescript, Angular 2

ML / Data Science : Matlab, Python, Jupyter Notebooks, Keras

(Tensorflow), Pandas, Scikit-learn
Databases : PostgreSQL, Firebase, Cassandra

DevOps : Gitlab, Git, Docker, Kubernetes

Operating Systems: Windows, Ubuntu
Cloud: GCP, Azure, AWS

Other

Organiser @ Code for Lancaster
- Coordinate community software projects
- www.codeforlancaster.org.uk

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

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

Meander
- Library for statistical change detection.

Experience

- 2019- Java Developer (Contract) Sky, Leeds
Working on the Sky identity platform, which provides authentication and authorisation for all Sky products, NowTV and NBCUniversal's new video streaming platform. 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. Responsible for product development, software design, deployment and implementation. Project is a mobile app served by RESTful CRUD Spring Boot services deployed on GCP / GKE (Kubernetes). Developed HAL/JSON APIs using Spring HATEOAS and Spring Data Rest on top of Hibernate. OAuth2 authentication. Admin panel in Angular 2. Client apps for Android and iOS.
- 2019 Machine Learning Engineer (Contract) Miralis Data, Lancaster
Short 1 week contract building LSTM RNN models in Python / Keras / Tensorflow for time series prediction.
- 2017 Senior Back-end Developer (Contract) Bangor University / Psychology Dept
Back-end lead on a biometric 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 Back-end Developer (Contract) BCUHB / Feasibility Study
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. This API was consumed by a phone and tablet application.
- 2013- Managing Director Sourcepulp, Bangor
Consultancy, contracting and IP development. Numerous short term consultancy and contract customers. Specialise in back end development, especially REST microservices and Spring libraries.
- 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#, L^AT_EX, Linux System Administration, Pattern Recognition and Neural Networks, Java Programming 1, 2 and 3.
- 2007-2008 IT Support Technician Scott Wilson Group, Basingstoke
In house technical support, system installation and system maintenance

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