Curriculum vitae

PERSONAL DETAILS

Name	**Allegra Bourne (nee. Weston)**
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PROFILE

Experienced software engineer who is able to work on own initiative and as part of a team. Understands that the business requirement drives the technical solution and believes that work commitment and personal growth are synonymous. Over a decade of experience developing concurrent, extensible and scalable solutions for local, national and multinational businesses in both the private and public sectors with extensive experience across diverse industries, including finance, supply chain technology, AI platforms, transportation systems, and IoT.

Adept at working with modern development frameworks, cloud services, and enterprise messaging solutions, with a strong emphasis on test-driven development (TDD) and design patterns. Seeking to contribute technical expertise to innovative projects that drive business value and enhance operational performance.

Advocate of mentoring and teamwork.

WORK EXPERIENCE

Jun 2022 - Present

Senior Software Engineer

Ligentia, Leeds, England, United Kingdom

Ligentia is a leading supply chain technology and services provider specialising in manufacturing, consumer brands, pharmaceuticals and the retail sector.

- Development of new Consignment Delivery Management portal with API development utilising Fast Endpoints, messaging via Azure ServiceBus and Angular for UI development.
- Worked to develop the new Landed Cost portal, a project which helped to retain Myer; Australia's largest department store, as a customer. Providing Myer with accurate landed cost and end-to-end visibility of their supply chain, from production confirmation, to freight booking, through to delivery to stores spanning Australia.
- Azure DevOps / Octopus Deploy for CI and release management, creation and maintenance of deployment pipelines inline with industry practice.
- Blazor utilised for the developmental concept for the new Client onboarding web application.
- Business analysis of legacy processes where knowledge had been lost with a view of replacing them with newer tech stacks.

Apr 2021 - Jun 2022   **Full Stack Developer**

Refract - an Allego company, Newcastle upon Tyne, England, United Kingdom

Refract Utilising AI technology to deliver personalised insight, based on the business and their reps, showing the actions and words that align with top performers and results.
Allego Sets out to improve onboarding and messaging consistency with high-quality, reliable and secure video learning, communication and collaboration. Engaging new hires quickly, developing critical skills and driving faster results for an organisation.

- Introduced multilingual capabilities to the Refract platform.
- Worked on introducing new 'road map' features to the Refract platform such as Call Analytics, Platform Usage and Deal Intelligence dashboards.
- .Net, Angular and SQL utilising code first and EF migrations.
- Azure development utilising blob containers.
- Emphasis on TDD and design patterns to ensure quality of work.

Apr 2020 - Apr 2021   **Integrations Developer**

XCM, York, England, United Kingdom

XCM are marketing specialists working with some of the biggest retailers in the UK to leverage competitive advantage via the use of specialist data tools, analysis and CRM services.

- Client integration utilising .Net Core and Kafka to ensure real time distributed streaming of big data from Google PubSub.
- Docker used for Kafka containerisation.
- TSQL / KSQL development.
- Google Cloud / PubSub integration.
- Apache AVRO for binary serialisation of messages for faster processing.
- Data migration and integration.
- Single Customer View.
- Development of the XCM Horizon data warehouse.
- Web Services development using .Net Core hosted in Kestrel.

Jan 2019 - Apr 2020   **Software Engineer**

Cubic Corporation, Stockton-On-Tees, United Kingdom

Cubic Transportation Systems is one arm of Cubic Corporation that produces public transport solutions, traffic management platforms and fare reading and payment systems.

- Development of ICMP - the traffic management platform utilised by New South Wales, Australia. The platform formed part of TfNSW's $123 million intelligent congestion management program which enabled better traffic management through real-time data and predictive technology.
- Frontend development utilising Angular / Typescript / SignalR.
- Enterprise messaging conducted utilising NServiceBus / RabbitMQ.
- Micro service development utilising AZURE Service Fabric / Topshelf / WebAPI services.
- Continuous integration via Jenkins with SonarCube code smells and Octopus.
- Development undertaken accordingly with Agile/SCRUM methodologies.

Jun 2017 - Dec 2018	**Solution Developer**

Vianet Group plc, Stockton-On-Tees, United Kingdom

Vianet are UK leader in providing draught beer quality and waste management services.

- Worked on the IDraught IOT platform on the consumption of data that would empower customer's strategic decisions on metrics and business intelligence, these insights were then used to measure metrics such as wastage, temperature, in identifying missing drinks and improving drink quality.
- Frontend development on the new 'Vianet IOT Portal' utilising AngularJS 2 / Typescript.
- WebAPI services via the use of .Net Core and hosted using Kestrel.
- AZURE web app services and message queueing.
- Big data processing via HBASE.
- JAVA / Apache SPARK / Hadoop number crunching business logic utilising IntelliJ GUI and taking on a TDD approach.
- Introduced an emphasis on TDD and introduced concepts attaining to Agile/SCRUM and mentoring junior members of the team.

Apr 2017 - Jun 2017	**Lead Software Developer**

ZyroFisher, Darlington, United Kingdom

ZyroFisher are the leading distributor of Parts, Accessories and Clothing to the UK and Irish cycling markets.

- Integrated new Altura Cycling customer facing commercial website with their backend ordering system and payment provider (included implementing Sage/SagePay API) utilising RabbitMQ, RESTful API services and HMAC authentication enabling customers to make online purchases for the first time.
- Front-end development utilising NodeJS.
- Emphasis on quality test driven development utilising NCrunch and MOQ.

Apr 2012 - Apr 2017	**Software Developer**

Lowell Group, Leeds, United Kingdom

Lowell are one of Europe's largest credit management companies, operating in the UK and the DACH and Nordic regions.

- RESTful Web API services self hosted utilising Topshelf.
- MVC5/Rest/CMS Umbraco - development of the new Lowell website, designed to give customers control over their accounts and manage payments securely through Verifone, similar to leading banking websites. In its first year, the platform saw over 150,000 customer registrations.
- Automated deployment via Octopus deploy and continuous builds using TeamCity.
- Test driven .Net development. NCrunch, MOQ.
- Service Orientated Architecture - development of person matching and address cleansing services utilising WCF and RabbitMQ.
- T-SQL utilising CLR functions.
- ORM implemented using NHibernate.
- Agile software development utilising SCRUM.
- Development of LIMA - Lowell's main tracing application.
- Provided third line support as required.

Feb 2011 - Apr 2012	**Collections Development Analyst**

Lowell, Leeds, United Kingdom

- Core business process mapping and improvement.
- Business process automation utilising SSIS, T-SQL and C#/VB.net in order to create dynamic DTSX packages.
- Data analysis utilising Crystal Reports and SSAS.
- Systems support, project and change management.
- Automated de-duping processes for enabling single view of customers with multiple accounts saving Lowell £40k (quoted by system supplier to scope out possible automation).
- Mentored colleagues in the use of source control, TFS, .NET and SSIS.

Feb 2009 - Feb 2011	**Integrated Systems Officer**
	North Yorkshire County Council, Northallerton, United Kingdom

- Project managed the deployment of CACI's 'Children's Centre Management System to the 40 Children's Centres throughout North Yorkshire.
- Project managed the deployment of North Yorkshire's new integrated online Admissions system.
- Aided in the deployment and integration of IMPULSE; the integrated system for children in North Yorkshire.
- Instigated a drive in data quality, this included the creation of a number of XML cleansing macros utilising VBA and xpath to cleanse data received from Schools.
- Aided with the implementation and accreditation of the prescribed national child reference system - ContactPoint and took the lead during Instance Accreditation for North Yorkshire and partners.
- Provided augmented services when required.

Sep 2006 - Sep 2007	**Systems Administrative Assistant (Internship)**
	State Street, Luxembourg

State Street Corporation is a financial services company that provides investment management services for institutional investors.

- Data warehousing / mining and core applications development for fund compliance.
- Java, Oracle and PL/SQL development.
- VBA (Contingency macros).
- Worked on the development of a data warehousing solution which pooled various assets, funds and investment information from different locations throughout the world. This information would then be used for investment analysis, fund accounting and various other investment strategies.

CERTIFICATES

IBM Data Science Professional Certificate

IBM AI Developer Professional Certificate

EDUCATION

2026	**MSc MANAGEMENT**
	Gies College of Business, University of Illinois Urbana-Champaign
2004 - 2008	**BSc (HONS) BUSINESS COMPUTING**
	University of Teesside
	With Second Class Honours Division One (2:1)

COURSES & QUALIFICATIONS

Please see LinkedIn for a comprehensive list of completed courses and qualifications