

David Simons

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Employment

- Aug 2016 - Current** **Full-stack Developer, Ministry of Justice**
Technologies include (Front-End:) JavaScript, AngularJS, Protractor, Jasmine, SASS, (Back-End:) Java 8, JavaEE, PostgreSQL, ActiveMQ, JUnit
Contract role developing a single platform to streamline the criminal justice system. Delivering and testing user stories as part of a Scrum team. Adding features to APIs in distributed Java microservices using the CQRS pattern, and delivering AngularJS components as part of a wider single page application.
- Apr 2016- Aug 2016** **Senior Consultant, GraphAware**
Selected Technologies: Neo4j, Java 8, Spring, JavaScript inc. NodeJS
Contract role providing services to a consultancy whose clients are adopting graph database technologies (Neo4j) or other NoSQL databases. Sample projects include data modelling and migration; design and delivery of training; data visualisation and development of open-source Neo4j tooling.
- Sep 2014- Apr 2016** **Technical Lead, Software**
Aug 2015 - Apr 2016: Technical Consultant and Presales Representative
Providing technical expertise to tight time constraints, either advising and supporting the sales team on prospective projects or as standalone consultancy engagements. Specialising in system architecture, estimation and code quality.
- Sep - Dec 2014, Mar - Aug 2015: Data Visualisation Prototyping Team**
Technologies include Java 8, JavaScript inc. NodeJS, Express, KnockoutJS
Leading a team of four developers to create a wide range of data visualisation prototypes. Mentoring the team to ensure high-quality architectures and code. Advising stakeholders around non-functional requirements.
- Jan - Mar 2015: Graduate Developer Trainer**
Technologies include Java 6, Spring, Thymeleaf, JUnit, Selenium, Cucumber
Training six graduate software developers. Designing and delivering a two week training course, focusing on Java web applications. Providing further mentoring whilst overseeing their delivery of an internal BBC analytics tool.
- Aug 2012 - Sep 2012** **Software Developer, Software**
Oct 2013 - Aug 2014: Reusable Retail Tool Suite
Technologies include JavaScript, SASS, Knockout, Jasmine, MSSQL, Selenium
Producing reusable single-page web applications to meet retail business needs, prioritising robustness and testability to enable bespoke deployments to clients.
- Nov 2012 - Sep 2013: Fashion Trends CMS**
Technologies include Groovy, Java 7, MongoDB, Spring, JUnit, Adobe CQ
Supporting and extending a CMS for fashion journalists. Rotating between data migration feasibility studies; second-line support and adding new functionality.
- Aug - Oct 2012: BBC Commercial Availability**
Technologies include Java 6, JSP, Spring, Hibernate, Tomcat, MySQL, JUnit
Creating a RESTful API of products and a web portal to curate the data. Adding scheduled integration to third party APIs to enrich this with retail availability.

Personal projects and open-source contributions can be seen on GitHub (**SwamWithTurtles**).

Key Technical Proficiencies

Java	Significant experience (4+ years) with Java 6, 7 and 8. Familiarity with other JVM languages including Clojure and Groovy. Strong understanding of the wider ecosystem including JavaEE and Spring, and other tools including Maven, Hibernate and Slf4j.
Front-end	Fluent in semantic HTML5, CSS/SASS and JavaScript (4+ years) including ECMAScript 6. Commercial experience with frameworks including AngularJS and KnockoutJS. Experience working with and setting up build tools (e.g. Gulp, npm) and plug-ins such as Babel compilation and automated testing.
Testing	Keen automated tester, with knowledge of libraries to test across each layer of the technical stack using (e.g.) JUnit, Mockito, Selenium, Cucumber, Protractor and Jasmine.
Databases	Architecting and integrating with a wide range of SQL databases. Certified Neo4j engineer and trainer, and familiar with a wide range of other NoSQL databases.
Architecture	Designed and implemented multilayered architectures (e.g. using MVC and CQRS patterns.) Leveraged technologies such as cloud hosting (AWS); message queues (ActiveMQ) and automated deployment pipelines (Maven, Jenkins).
Agile	Advocate for Agile processes (Kanban, Scrum). Experience supporting technical aspects (Version Control, Continuous Deployment) and agile ceremonies (Story Planning, Retros).
Training	Experience delivering both commercial and internal training courses and on-project mentoring. Contributor to a wide range of technical conferences.

Selected Conference Talks

2016	“Introduction to Recommendation Engines” at BrisTech Introducing recommendation engines, and an extensible way to architect them. “High Quality Front-End” at NDC London Advocating best practice in all areas of writing code to be run in the browser.
2015	“Choosing the Right Database” at NDC London, .NET Rocks (Podcast) and Endpoint Amsterdam Exploring a range of SQL and NoSQL flavours, combining use cases and theory. “Introduction to Microservices” at ProgsCon, APIStrat Berlin and { develop : BBC } Defining and justifying microservices, and looking at the surrounding ecosystem.

Education

2008-2012	Trinity College, University of Oxford , MMath in Mathematics and Statistics (2.i) Including modules in data analysis and programming. Produced a dissertation on an algorithm (Barabasi-Albert) used to simulate the growth of graphical networks
2001-2008	King Edward VI Grammar School and Sixth Form College, Chelmsford A-levels in Maths, Further Maths, English, Physics and German (A). 11 GCSEs including Maths and English (A* or As).