

# Simon Taylor

SPT Development Ltd, 57, Desjardins Way, Pershore, Worcestershire, WR10 3EA  
+44 (0) 7825 332003 | simon.taylor@spt-development.com | www.spt-development.com

## PROFILE

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Highly accomplished Solution Architect / Lead Developer with twenty years hands-on development and architecture experience within integration, enterprise application, public facing website and mobile application projects, for blue chip organisations, start-ups and government departments. A wide skill set and flexible attitude, in addition to being a quick learner, mean I have considerable experience of Java (Spring/JEE) and .Net projects and a proven track record of being fundamental to the successful delivery of these projects. In addition to technical ability, my work ethic and attention to detail really set me apart from my peers and are values I aim to encourage in members of the teams I lead.

Currently looking to provide solution architecture, software consultancy and development services through SPT Development Ltd.

## KEY SKILLS

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- Java (4 - 16), Javascript, C# .NET, Python, SQL
- Spring - Spring Boot, Spring MVC, Spring Security, Spring Integration, Spring Batch, Spring Cloud Config
- JEE - MDB, JMS, EJB, JPA, JAXB, JAXRS, Wildfly, JBoss
- Devops - Jenkins, Maven, Gradle, Ansible, Docker
- AWS - EC2, ECS, Cognito, Lambda, S3, SQS, Kinesis, DynamoDB, RDS, Route 52, Cloud Front
- Database - Postgres, MySQL, SQLServer, Elasticsearch, Redis, MongoDB
- Testing - JUnit, Mockito, Cucumber, Selenium, Automation, TDD, BDD
- UI - React, Redux, Final Form, Bootstrap, HTML/CSS
- Methodologies - Agile, Scrum, Kanban, SAgile, Waterfall
- Microservices, REST, SOAP, SOA, Enterprise Integration Patterns, Mule ESB, Camel

## PROFESSIONAL EXPERIENCE & ASSIGNMENTS

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### Federated Wireless

#### Lead Full-Stack Developer (Contract)

Feb 2021 - Present

- Responsible for architecting and developing a Spectrum Access Service (SAS) based on Shared Access Licence (SAL) regulations and automation requirements of SALs set out by OfCom.
- Built microservices with Python/Flask deployed to AWS ECS integrated with other AWS services such as S3 and SQS.
- Developed the UI to be used by administrators and in the field by Engineers with React, utilising frameworks and libraries such as React Final Forms, React Redux and React Bootstrap.
- Integrated Google Maps into various UI components for displaying locations and ranges of transmitters etc.
- Wrote processes for importing datasets of multiple GBs geographic data from sources such as the ONS, making use of MongoDB geospatial indexes and Python libraries such as Shapely to process and transform the data.
- If successful this project in conjunction with OfCom, the University of Strathclyde and Cisco will enable rural and other left behind communities to finally gain access to digital services the rest of us have come take for granted.

### SPT Contractors

#### Co-Founder/CTO

Dec 2020 - Feb 2021

- Responsible for architecting and developing <https://spt.contractors> making use of the latest AWS cloud technologies, microservices, React and Spring Boot.
- Through the innovative use of AWS products such as ECS, was able to build a solution capable of running at massive scale whilst keeping costs to a minimum while the business grew.
- Aware of the importance of minimising tech-debt that can kill a start-up, included quality gates such as 100% test coverage, mutation testing and automated acceptance testing.
- Designed and developed continuous delivery Jenkins pipelines, for automated delivery of new versions of the system.

### Home Office

#### Lead Full-Stack Developer (Contract)

June 2020 - Feb 2021

- Led a team responsible for the development of a suite of Spring Boot microservices deployed to AWS, on a multimillion-pound program to replace the Police National Computer and Police National Database.
- Utilised Apache Camel for integrating components within the program and external services provided by other agencies such as the DVLA.
- Built a React front-end for entering and querying highly sensitive information.
- Championed the use of Spring JDBC template as an alternative to JPA/Hibernate to improve the performance of slow running APIs, reducing response time from up to a minute, down to sub-second.
- Reduced the number of defects reported by the QA team by 35% through the introduction of integration tests built using JUnit and Cucumber, that ran as part of the Jenkins CI/CD Pipeline.
- Acted as mentor to junior members of the team.

## **Her Majesty's Government (BAE)**

### **Lead Developer (Contract)**

**Apr 2019 - June 2020**

- Led a team responsible for the development and maintenance of a Spring Boot microservice providing a REST API for the deployment of packages from a secure network onto an insecure network.
- Championed the introduction of integration tests, making use of JUnit and Cucumber, that ran as part of the Jenkins Pipeline CI build.
- Developed Ansible playbooks for the automated deployment of the Spring Boot microservice and other components of the system such as the ELK stack, Redis and RabbitMQ, to a Docker Swarm.
- Developed Python classes that wrapped and unwrapped messages sent to the insecure network.
- Introduced Spring Cloud Config server for managing the configuration of multiple microservice instances.
- Mentored junior members of the team, encouraged them to take a test-first approach to development and introduced them to the benefits of writing clean code.

## **Her Majesty's Government (BT)**

### **Senior Developer (Contract)**

**Aug 2018 - Apr 2019**

- Responsible for development, maintenance and compliance of the UI of the most widely used application in the department, built on Spring Boot/Spring MVC with Ext JS [migrating to a] React front-end.
- Built a highly extensible Spring Boot 'formatter' microservice with HTTPS client authentication that converted files from formats such as Visio to PDF for safely displaying the content in the UI.
- Developed an extensive suite of unit tests and integration tests using JUnit and Cucumber and ran them as part of a Jenkins Pipeline CI build.
- Mentored more junior members of the team, introducing them to the latest Java features, the importance of testing and more traditional ways of running an agile team.

## **Anatwine**

### **Lead Developer (Contract)**

**May - Aug 2018**

- Gave business analysts the ability to configure order extensions via a spreadsheet-based DSL, considerably cutting the costs of new integrations to Nike, JD Sports and other tier one customers.
- Built a Spring Boot configuration service that handled multiple environments, versioning and diffing across environments. Included git integration and integration with Anatwine's single sign on solution.
- The configuration service reduced the number of issues introduced to the production system through incorrectly applied configuration, by 87%.
- Provided technical and architectural guidance to other teams.

## **Co-op (Capgemini)**

### **Lead Java Developer (Contract)**

**Apr - May 2018**

- Designed and developed a Spring Boot microservice for batch loading 'Colleague Recruitment' reference data received from Oracle Fusion and Oracle Taleo via Oracle Integration Cloud Service (ICS) into MySQL.
- Developed the solution with an API first approach using API Blueprint and Apiary to specify the API and provide early visibility.
- Identified weaknesses in the approach to logging, error handling and the build and deployment process of other microservices and presented the 'Reference Data' service as the reference architecture.
- Built an extensive set of automated component tests using Cucumber to define the behaviour of the API.

### **Various Assignments**

**Jun 2000 - Apr 2018**

- For details of professional experience and assignments prior to March 2014, please see the appendix.

## **QUALIFICATIONS / CERTIFICATIONS**

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### **Microsoft Certified Professional Developer**

**Apr 2008**

- Windows Developer

### **Sun Certification**

**Aug 2006**

- Sun Certified Programmer for the Java 2 Platform, Standard Edition 5.0

### **University of Manchester**

**1997 - 2000**

- First Class Bsc (Hons) in Computer Science

### **Pershore High, Worcestershire**

**1991 - 1997**

- A - Levels - Maths A; Physics B; Computing C; General Studies C
- GCSEs - 9 Subjects including Maths (A\*) and English Language (A)

## **RECOMMENDATIONS**

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Recommendations from clients, available on request.

## APPENDIX

### PROFESSIONAL EXPERIENCE & ASSIGNMENTS CONTINUED

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<b>Anatwine</b> Solution Architect (Perm + Contract)	Mar 2014 - Apr 2018
<b>IRESS UK</b> Software Engineer (Contract)	Oct 2013 - Mar 2014
<b>HESA</b> Software Consultant (Contract)	Feb - Oct 2013
<b>Pactable</b> Software Consultant (Contract)	Nov - Dec 2012
<b>Greenlife Water</b> Software Consultant (Contract)	May - Nov 2012
<b>Pactable</b> Software Consultant (Contract)	Feb - May 2012
<b>Invitation Digital</b> Lead Developer/Architect (Contract)	Nov 2011 - Feb 2012
<b>Trigger Software</b> Lead Architect (Contract)	Aug - Nov 2011
<b>Infusion</b> (P/T) Software Consultant (Contract)	Aug - Nov 2011
<b>Infusion</b> Software Consultant / Team Lead	Feb 2010 - Aug 2011
<b>Trigger Software</b> Head of Engineering	Aug 2005 - Feb 2010
<b>Cognition Solutions</b> Senior Developer / Team Lead	Jun 2002 - Aug 2005
<b>Logica</b> Software Consultant	Jun 2000 - Jun 2002

### FREELANCE ASSIGNMENTS

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<b>iFleet Mobile</b> iPhone Developer	Jan 2010 - Aug 2005
<b>SoPublishing</b> ASP.NET Developer	Jun 2009 - Feb 2010
<b>Apress</b> Technical Reviewer	Jun - Dec 2009

For further detail on all the assignments in this appendix, browse to <https://www.linkedin.com/in/simon-paul-taylor>.