

# HARRISON SPAIN

A highly motivated, innovative and professional software engineer. Can integrate seamlessly into, or lead, teams producing high quality software artefacts using a variety of languages, libraries, tools and techniques. Passionate about all aspects of technology; learns new languages and technologies quickly. Specialises in JVM applications.

## INFO

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- 🌐 Harrison Spain

## SKILLS

### Programming Languages

Java	●●●●●●●
(7 through 17, inc. Jakarta EE & Steams)	
Kotlin	●●●●●●●
C# .NET	●●●●●●●
TypeScript	●●●●●●●
HTML/CSS	●●●●●●●
Bash	●●●●●●●
Python	●●●●●●●
C/C++	●●●●●●●

### Libraries and Frameworks

Spring Framework	●●●●●●●
(inc. Boot, Web, Data, GraphQL, Security)	
Dagger	●●●●●●●
React	●●●●●●●

### Testing

Unit Testing	●●●●●●●
(JUnit, Mockito, NUnit, NSubstitute, Jest)	
UI Integration Testing	●●●●●●●
(Selenium, Cypress, Espresso)	
Test Driven Development	●●●●●●●

### Operating Systems

Windows	●●●●●●●
Android	●●●●●●●
Linux	●●●●●●●

### Software & Tools

Databases	●●●●●●●
(SQL, Neo4j, Elasticsearch)	
Data Distribution	●●●●●●●
(Apache NiFi, RabbitMQ)	
Office Suites	●●●●●●●
Docker	●●●●●●●
Cloud	●●●●●●●

### Teamwork and Collaboration

Git	●●●●●●●
Jira/BitBucket/Confluence	●●●●●●●
Agile (SCRUM)	●●●●●●●
Team Leadership	●●●●●●●
UML	●●●●●●●

## EMPLOYMENT HISTORY

📅 January 2021 - Present  
📍 BAE Systems Digital Intelligence  
**Senior Software Engineer**  
Senior software engineer leading a distributed SCRUM team based on customer-sites and at home. Designed and built an ecosystem of Android, JVM (Java 11, Kotlin, Spring, Apache NiFi), TypeScript (React), and .NET (MEF/WPF) applications and plugins. Responsible for establishing the team's engineering approach and best practices. Highly involved with client, end-user, and product owner meetings. Interviewed and hired graduates and contractors.

📅 April 2018 - January 2021  
📍 BAE Systems Applied Intelligence  
**Software Engineer**

- Lead a software engineering team building a prototype application for exhibition at DSEI utilising TypeScript, React, Node, GraphQL, and Neo4j. Interacted closely with stakeholders and sub-contractors. Presented the prototype to potential customers.
- As part of a scrum team added new features to a personal data management system using C# ASP.NET Framework and Core, TypeScript, React and MS SQL Server.

📅 September 2016 - April 2018  
📍 BAE Systems Applied Intelligence  
**Graduate Software Engineer**

- Built a knowledge base application utilising a graph database to store and search highly connected data using Neo4j and Elasticsearch.
- Designed and built from the ground up a document searching solution integrated with Microsoft enter-prise systems. Java (Spring), Elasticsearch and Angular 4 provide seamless document searching across multiple data sources.
- Created a unified Linux system monitoring solution across multiple client system using Nagios and shell scripting.
- Conducted a security audit of client systems to reduce the potential attack surface of the systems.

📅 June 2015 - September 2015  
📍 Thales UK, Innovation Hub  
**Summer Internship SWE**

- Contributed to Centre for Maritime Intelligent Systems building and deploying maritime simulation software.
- Worked on tools for WebLVC and HLE-E interoperability protocols using Java, C++, JSON and WebSockets.

📅 June 2015 - September 2015  
📍 Thales UK, BTC  
**Industrial Placement SWE**  
Concept development and demonstration by means of low fidelity, yet highly flexible simulation. Created and maintained Java applications which supported the simulation, with some C++ work. Additionally produced scripts and scenarios for the VBS2 simulator.

## EDUCATION

📅 2011 - 2016  
📍 The University of York  
**Master of Engineering**  
MEng Computer Science with Artificial Intelligence. **First Class Honours**. Dissertation: Reinforcement Learning of Helicopter Control.

📅 2009 - 2011  
📍 Oriel Sixth Form  
**A Levels**  
Mathematics (A\*), Computing (A), Physics (B), Chemistry AS (C)

📅 2007 - 2009  
📍 Oriel High School  
**GCSEs**  
13 GCSEs (A-C) including; English, Mathematics, Physics, Biology, Chemistry, Electronics and ICT

## AWARDS

🏆 2015: IBM Prize "Outstanding performance in the third year of his degree programme"

## INTERESTS AND ACTIVITIES

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Technology, Open Source, Programming, Java ecosystem, Personal Finance  
PC Gaming, Lego, Science Fiction  
National Trust, Guitar, Music, Photography  
Pursuing IET Chartered Engineer status

## OTHER EXPERIENCE

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 January 2010

 National Physical Laboratory

### Work Experience Placement

Assisted the development team in the testing of software that simulated Lock-In Amplifiers. Produced a statistical report of my test findings. Learnt about Monte Carlo calculations and their use in the simulator.

 January 2008

 Omicron Nanotechnology

### Work Experience Placement