

# 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.

## INFO

- contact@harrison-spain.com
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- @hs750
- Harrison Spain

## SKILLS

### Programming Languages

Java	●●●●●
Kotlin	●●●●●
C# .NET	●●●●●
TypeScript	●●●●●
HTML/CSS	●●●●●
Bash	●●●●●
Python	●●●●●
C/C++	●●●●●

### Libraries and Frameworks

Spring Framework/Boot	●●●●●
Dagger	●●●●●
GraphQL	●●●●●
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	●●●●●
Atlassian Tools	●●●●●
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 array of Android, JVM (Spring Boot, 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 Type-Script, React, 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, 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**

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

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
-  January 2008

 Omicron Nanotechnology

Work Experience Placement