Harrison Spain

MEng MIET

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.

Personal Information

EMAIL: contact@harrison-spain.com
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Work Experience

Sept 2016 - Present
Software Engineer

BAE Systems Applied Intelligence, Guildford

Senior software engineer in a distributed SCRUM team based on customer-site creating Android and .NET applications and plugins. Responsible for establishing and ensuring the team's engineering ways of working and best practices.

Lead a software engineering team building a prototype application for exhibition at DSEI utilising TypeScript, 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# .NET Framework and Core, TypeScript, React and MS SQL Server.

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 enterprise 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.

Jun 2015-Sept 2015
Software Engineer

Summer Intern at **Thales UK, Innovation Hub,** Crawley

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.

Jun 2013-Aug 2014
Software Engineer

Industrial Placement at **Thales UK, BTC,** Crawley

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.

Skills

Core complacencies in **bold**.

Programming Languages	**Java**, **TypeScript**, C#, Python, SQL, C++, JavaScript, Bash, PHP
Operating Systems	**Linux**, **Windows**, Android, MacOS
IDEs & Editors	**IntelliJ**, Eclipse, Visual Studio, **Visual Studio Code**
Office Software	Microsoft Office, iWork, LaTeX, Open Office, SharePoint
Libraries	**Mockito**, Jackson, **Enzyme**, Apache Tika, Rabbit MQ
Frameworks	**Spring Framework**, Dagger, Angular 4, **React**, GraphQL (Apollo)
Other Technologies	**Git**, **Elasticsearch** & Kibana, JSON, XML, HTML5, MySQL, SSH, Gradle & Maven, **Neo4j**, Docker
Teamwork and Knowledge Sharing	**Agile** (Scrum), **Atlassian Tool Suite** (Jira, Bitbucket, Confluence), GitHub, Slack, Team Management, **UML**

Education

2011 - 2016	Master of Engineering in COMPUTER SCIENCE WITH ARTIFICIAL INTELLIGENCE *First Class Honours (79%)*, **The University of York** First Year 78% Second Year 76% Third Year Year in Industry - Software Engineering and Software Testing Fourth Year 81% Fifth Year 78%
2009 - 2011	A Levels at **Oriel Sixth Form** Mathematics A* Computing A Physics B Chemistry (AS) C
2007 - 2009	GCSEs at **Oriel High School** 13 GCSEs (A-C) including; English, Mathematics, Physics, Biology, Chemistry, Electronics and ICT.

Awards

OCT. 2015	IBM Prize "Outstanding performance in the third year of his degree programme"

Interests and Activities

Technology, Open-Source, Programming,
PC Gaming, Clay Pigeon Shooting, Tennis,
PC Building, Lego, Science Fiction, Finance,
National Trust, Guitar, Photography,
Reading SWE Textbooks,
Pursuing IET Chartered Engineer status.

Other Experience

JAN 2010 *Software Tester*	Work Experience at NATIONAL PHYSICAL LABORATORY, Teddington 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.
JAN 2008 *Equipment Tester*	Work Experience at OMICRON NANOTECHNOLOGY, East Grinstead Working with a team of three, assisted in assembly and quality assurance testing of vacuum chambers for use in research. Also assisted in the assembly of a delicate sensor for use in the vacuum chamber.