Harrison Spain

MEng MIET

A highly motivated, skilled, innovative and professional software engineer. Can integrate seamlessly into teams or work independently producing high quality software artefacts using a variety of languages, libraries, tools and techniques. Has key skills in building Java based enterprise applications utilising Elasticsearch and other tools.

PERSONAL INFORMATION

EMAIL: contact@harrison-spain.com
WEBSITE: harrison-spain.com

WORK EXPERIENCE

SEPT 2016 - PRESENT
Software Engineer

BAE SYSTEMS APPLIED INTELLIGENCE, Guildford

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.

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"

Skills

Core complacencies in **bold**.

Programming Languages	**Java**, **Python**, **TypeScript**, SQL, C++, C, MATLAB, Javascript, Bash, PHP
Operating Systems	**Linux** (Ubuntu, Debian, CentOS, RedHat), **Windows**, MacOS
IDEs & Editors	JetBrains IDEs (**IntelliJ**), **Eclipse**, Visual Studio, Nano, Vi, Notepad++
Office Software	Microsoft Office, iWork, LaTeX, Open Office, Sharepoint
Libraries	**Mockito**, **Jackson**, Apache Tika, Apache ActiveMQ, Apache Camel, Rabbit MQ
Frameworks	**Spring Framework** (Boot, Data, MVC), Django, Web2Py, Apache Tomcat, Python Flask, Angular 4
Other Technologies	**Git**, **Elasticsearch** & Kibana, **JSON**, Websockets, **XML**, XML Schema, VBS2, DDS, DIS, HLA-E, WebLVC, Eclipse Modelling Framework & Epsilon, MiniZinc, **HTML5**, Nagios, MySQL, **SSH**, Gradle & **Maven**, Microsoft SQL Server, Microsoft Exchange, Microsoft Sharepoint, Skype for Business, Lexalytics' Salience, **Neo4j**, **Docker**, AWS
Teamwork and Knowledge Sharing	**Agile** (Kanban, **Scrum**, XP), **Atlassian Tool Suite** (Jira, Bitbucket, Confluence, Fisheye, Crucible), GitHub, Slack, Team Management, **UML**

Interests and Activities

Technology, Open-Source, Programming,
PC Gaming, Clay Pigeon Shooting, Tennis,
PC Building, Lego, Science Fiction

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.