

Harrison Spain

A highly motivated, skilled, innovative and professional software engineer. Harrison can integrate seamlessly into teams and work independently producing high quality software artefacts using a variety of languages, libraries, tools and techniques.

PERSONAL INFORMATION

EMAIL: contact@harrison-spain.com
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WORK EXPERIENCE

SEPT 2016 - PRESENT <i>Software Engineer</i>	BAE SYSTEMS APPLIED INTELLIGENCE, Guildford Built a knowledge base application utilising a graph database to store and search highly connected data. Designed and built from the ground up a document searching solution utilising open-source and proprietary software tools and libraries to integrate with Microsoft enterprise systems. Created a unified Linux system monitoring solution across multiple client system using Nagios with NRPE and shell scripting. Conducted a security audit of client systems to reduce the potential attack surface of the systems.
JUN 2015-SEPT 2015 <i>Software Engineer</i>	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 <i>Software Engineer</i>	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 <i>First Class Honours (79%), The University of York</i> 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

Programming Languages	Java, Python, TypeScript, SQL, C++, C, Ada, MATLAB, Javascript, Bourne shell & Bash, PHP
Operating Systems	MacOS, Windows, Linux (Ubuntu, Debian, CentOS, RedHat)
IDEs & Editors	Eclipse, Visual Studio, JetBrains IDEs, Nano, Vi, Notepad++
Office Software	Microsoft Office, iWork, L ^A T _E X, Open Office, Sharepoint
Libraries	Jackson, Apache Tika, Apache ActiveMQ, Apache Camel, Rabbit MQ, Mockito
Frameworks	Spring Framework (Boot, Data, MVC), Django, Web2Py, Apache Tomcat, Python Flask, Angular 4
Other Technologies	Git, SVN, JSON, Websockets, XML, XML Schema, VBS2, DDS, DIS, HLA-E, WebLVC, Eclipse Modelling Framework & Epsilon, MiniZinc, HTML, Nagios, Hyperic, Perforce, MySQL, SSH, Gradle & Maven, Microsoft SQL Server, Microsoft Exchange, Microsoft Sharepoint, Skype for Business, Elasticsearch & Kibana, Lexalytics' Salience, Neo4j, Docker, AWS
Teamwork and Knowledge Sharing	Agile, 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 <i>Software Tester</i>	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 <i>Equipment Tester</i>	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.