

marcelcutts

full-stack engineer

contact

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public CV

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languages

English fluency
German basic

programming

Python, JavaScript
C#, Java, C++
SQL, PLSQL
CSS3 & HTML5

methodologies

TDD, BDD
Scrum/Kanban
UX, UCD

synopsis

Full stack developer blended with client facing consultancy experience.

From stacking together a PC from salvaged parts to popular web applications, over the years I have absorbed technologies and systems making me a capable generalist. My thirst for learning endures, and I will continue to take knowledge hostage into the future.

When not sat behind a computer for work or for fun, I mostly climb rocks, fight heavy people, trek across the arctic and play guitar talentlessly.

education

2007–2012 **Physics** with industrial experience University of Bristol
Thesis on the superstate of b-meson oscillations.

employment

2011–201_ **Tessella** Oxford, United Kingdom
Analyst Developer
During my time at Tessella I have had opportunities to work on an exceptional variety of development and consultancy projects across domains. This has ranged from designing and implementing large scale n-tier applications to analysing and advising on processes in the consumer industry.
Internally, I have championed new technologies and methodologies, as well as led small teams and mentoring developers.

2010 **Deutsches Elektronen-Synchrotron** Hamburg, Germany
Particle Physicist
My efforts at the DESY institute focused on combining knowledge of physics and programming ability to contribute to an upcoming particle accelerator, the International Linear Collider. As part of my role, I regularly gave presentations to international audiences to promote scientific updates from the department and attended numerous specialised lectures.

2009–2010 **De La Rue** London, United Kingdom
Research and Development Scientist
De La Rue allowed me contribute to upcoming security products across many areas of science. Throughout I developed my own ideas, mostly within the realm of software, but also within materials science and optics.
Within the broader team, I participated in designing, prototyping and refining oncoming products, including work in holographics, polymer development, photonic crystals and printed electronics.

2004–2010 **Various part time or short term employment** Worldwide
Various service positions
Number of roles during younger years ranging from park keeper to bar tender.

selection of relevant experience

This section contains a sample of projects I have completed that may be relevant to the position being offered.

Pharmaceutical portal

C#, MSSQL, Entity Framework, MVC4, NUnit, nSubstitute, WF, WCF, Unity, CI

The portal offers a number of services providing speciality pharmaceuticals, including a Global Access Program which is intended to provide unlicensed or trial-phase drugs to patients in need, internationally and domestically.

A solution was required to handle requesting, validation, procurement, shipping and tracking of these drugs by health care professionals, via pharmaceutical suppliers, while fulfilling all necessary industry regulations. As the software gained clients, analytics and reporting were developed to aid in overseeing the complex pharmaceutical chain.

A web-based application was created, by myself in a small scrum team, to satisfy these requirements. We used an MVVM architecture built on .Net's MVC4 framework as the foundation and applied principles of agile, with rigorous unit testing and continuous integration testing throughout.

The result is a highly accessible portal for users and clients, which automated several previously manual processes. This allowed the client to rapidly expand its program range with minimal additional effort.

Domain name and SSL

C#, asp.Net WCF, Selenium, junit, NUnit, Oracle, PLSQL

This project consisted of two core tasks: the creation of a full-stack web application to allow users to manage their domains independently and inclusion of new Domain Name System Security Extensions (DNSSEC) to secure domains against more modern forms of malicious network attacks.

The work involved alterations at the database level, writing packages to handle data directly into large currently existing Oracle systems and front end user design. Alongside the application, a background web service was developed with WCF to allow other departments within the organisation to use the functionality of the application without having to write it themselves. All tasks were completed using continuous integration featuring both unit and front end testing.

The application has proven popular, handling all certificate and domain name issues for the organisation, increasing their product range and allowing the organisation to free up a large number of resources for other critical projects.

County force intelligence and tasking system

C#, Sharepoint, NUnit, MS SQL, networking

A number of country police forces use a central system to brief and organise their resources and tasks. A number of new features and tools were requested to be implemented in the current system, based on Sharepoint 2007 platform.

The current system had been built and expanded in an ad-hoc impromptu manner; a well architected re-implementation was suggested, and while SharePoint was not the best possible platform for their needs, external forces existed ensuring its use. I created a modular decoupled architecture to best serve their current needs and offer clean separation and extensibility in the future. Alongside the core technical tasks, I introduced and automated deployment methods, advised on hardware issues, and trained the clients on future maintenance and use of the delivered system.