

Derek Houghton

Data Architect Java Engineer UI/UX Designer

Over the past three decades I have worked on various projects in which I have been a solo developer, active team developer and team manager of my own group of digital creatives. I am comfortable working in each role.

My focus is on delivering high level functionality combined with a user friendly aesthetic whilst implementing relevant security and robust testing procedures and employing a range of Agile methodologies.

My areas of expertise are in the design of front-end interfaces, middleware object-oriented logic and back-end database administration with the addition of providing bespoke ETL systems.

Education:

BSc Hons. Zoology (2.1) - Aberdeen University

MSc Information Technology - Stirling University

Employment and Projects:

Heriot Watt University - Human Gut Atlas Project

Data Manager/Software Developer. Specifically focusing on the pathology of Crohn's Disease. Management of Anatomy and Cell Type ontologies in conjunction with visual integration of diverse datasets using bespoke 1D, 2D and 3D models of the gut built into a secure online web application. 2021-2025

Edinburgh University / The Roslin Institute

Data Manager/Database Software Developer. Create a secure and fully editable Web Application to automate the integration of both human and machine generated data with CT Scan images for large animal studies. Design and manage system to capture, store and retrieve data from such studies as part of the newly built large animal research and imaging facility (LARIF) 2017-21.

Edinburgh University / Medical Research Council

Solutions Architect to rewrite online global research application, refactor code and optimise database design and queries. (GUDMAP 2) 2014-17.

Development Team Leader on the construction of a molecular atlas of gene expression for the developing organs of the GenitoUrinary tract as part of a multinational project: (GUDMAP 1) 2005-10

Software Engineer in creation of a spatially mapped gene expression database as part of a European wide project (EurExpress) 2000-03

Glasgow University

Data Architect. Exploration and development of BioMedical research tools delivered by Grid Enabled Services (BRIDGES) 2003-05

Highlands and Islands Enterprise

Database Developer. Financial database design with the intention of facilitating the implementation of government strategies as they came online with subsequent deployment to networked associates. 1998-2000

Startups:

Alive Arts - Movement ~ Art ~ Health in Moray.

Web Design: <https://www.alivearts.org>

Social Web Enterprise - Digital identity and design solutions.

Web Design: <https://www.socialwebenterprise.net>

Other Activities:

Writer - Short Stories

Percussionist - Acoustic/Electric

Cook - Hay Principles



Specific Technical Areas of Expertise:

Programming:

Java 8+

Javascript, Python v2/3, Perl, Swift

PHP 7+, HTML 5, CSS 3

Frameworks: JSF, VueJS 3+, Spring, Django, GWT, JQuery

Server Software: NGINX, Apache, Glassfish, Tomcat, Open Microscopy Environment (OME)

Database Management Systems:

Postgres, DB2, MariaDB, MySQL, Progress, Sybase

Cloud Services/Integration:

Seafile, Docker, Ansible, OME IDR, Adobe Creative Cloud

OS: Linux (RH, Centos), OSX, Windows Server

Testing/Bug reporting:

Junit, Jmeter, Selenium, Mantis

Development Environments:

Eclipse, Netbeans, Visual Paradigm, PyCharm, Rational Enterprise, Visual Code

Multimedia:

Adobe Creative Suite, Logic Pro

Versioning:

Git, CVS, Maven, Liquibase

Referees: (available upon request)

Contact:

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Nationality:

British

Supplementary:

Full, clean driving licence