

Derek Houghton

Data Architect Java Engineer UI/UX Designer

Over the past 20 years 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:

Edinburgh University / The Roslin Institute

Database/Application 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. (WTCCLLA) 2017-2020.

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 Genito Urinary 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 (Eur-Express) 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:

State Theta Galleries

A dedicated centre for the development of Movement, Health and the Arts in East Lothian.

Social Web Enterprise

Providing digital identity and design solutions.

Other Activities:

Writer - *Short Stories*

Percussionist - *Acoustic/Electric*

Cook - *Hay Principles*



Specific Technical Areas of Expertise:

Programming:

Java 8+

Javascript, Python v2/3, Perl, Ruby on Rails, Swift

PHP 7+, HTML 5, CSS 3

Frameworks: JSF, Spring, Django, GWT, AngularJS,

JQuery

Server Software: NGINX, Apache, Glassfish, Tomcat,

Open Microscopy Environment (OME)

Database Management Systems:

Postgres, DB2, MariaDB, 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

Multimedia:

Adobe Creative Suite, Logic Pro

Versioning:

Git, CVS, Maven, Liquibase

Referees: (*can be contacted prior to interview*)

Available upon request

Contact:

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Ormiston

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Nationality:

British

Supplementary:

Full, clean driving licence