

# Luke Pomeroy

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## About Me

I'm a highly motivated self-starter with a passion for technology, problem solving and creativity. I've worked in systems development roles within museums for over ten years, where I developed a deep interest in software engineering. I enjoy learning new programming languages, and exploring new technologies and frameworks. I get satisfaction from making and implementing real tools that solve end-users problems in creative ways. In my free time, I program Arduino microcontrollers and create web applications using frameworks such as Django and Flask.

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## Technology and Tools

- HTML5 and CSS
- Python and Django web application framework
- Databases: MySQL, SQLite and Oracle SQL
- JavaScript, Node.js and Express
- .NET Framework and PowerShell
- Git and GitHub for version control
- AWS and Oracle Cloud computing
- Apache web server implementation and configuration
- RESTful APIs, HTTP/HTTPS and data interchange formats such as JSON and XML

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## Key Skills and Knowledge

- Meticulous attention to detail, with a consistent and repeatable approach
- Logical and creative approach to identifying and solving problems
- Good understanding of software design (e.g. MVC/MVT/MVVM) and database structures, and OOP principles
- Ability to understand client requirements and translate them into meaningful solutions that address business needs
- Adaptable working style with self-initiative and the ability to learn quickly in a fast-paced dynamic environment
- Excellent ability to communicate technical concepts to nontechnical stakeholders
- Understanding of the importance of documentation and version control (e.g. Git)
- Understanding of Agile development methodologies
- Working with clients to gather requirements, and application of prioritisation techniques (e.g. MoSCoW method)
- Ability to communicate clearly and work collaboratively as part of a team
- Knowledge of the importance of test driven development and unit/functional tests

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## Projects

**[LukePomeroy.co.uk](https://lukepomeroy.co.uk) – A portfolio website to showcase my development skills and projects** **2022-present**

My portfolio website was built using Django, HTML5 and CSS. The projects featured on this site are stored in a SQLite database and utilise the Django ORM and template engine.

**[Cactusapp](#) - A Django app for keeping track of cacti seed sowings, hosted on Oracle Cloud** **2021-present**

I created this app to maintain a record of my cacti seed sowings, and to provide an API endpoint for receiving environmental data readings from Arduino data loggers.

**[ImageAPI](#) - A Node.js and Express app for serving derivative images on-the-fly** **2020**

Built using Node.js, Express and the [lovel/](#)sharp image processing library to serve derivative images stored on a network drive on-the-fly via a URL, with the file path and desired image size specified via parameters. ImageAPI was created to improve the embedding and scaling of images within Crystal Reports.

**Glenside Hospital Museum CMS - *An implementation of Collective Access, hosted on Oracle Cloud***      **2016-present**  
Collective Access is a suite of open-source PHP based web applications for managing and describing museum and archive collections. I configured Collective Access to suit the needs of the museum, and hosted the application on AWS T1 micro and Oracle Cloud E2.1 micro instances.

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## Training Courses and Certifications

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### LinkedIn Learning Courses Completed 2022

- Designing RESTful APIs
- Docker for Developers
- Programming Foundations: Version Control with Git
- TypeScript: Object-Orientated Programming
- Software Architecture: Breaking a Monolith into Microservices

### PRINCE2 Agile Foundation    *The Knowledge Academy* 2020

### Introduction to Oracle SQL    *Learning Tree International, London* 2013

### Introduction to Crystal Reports    *Learning Tree International, London* 2013

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## Career Summary

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### Documentation Manager 2019-present

Museum of London

- Systems and Data Lead for the preparation and move of collections to the New Museum in West Smithfield
- Implementation of barcoding to track movement of collections via handheld iOS devices with Linea Pro sleds
- Development of systems to support issuing of object lists to exhibition designers, with version control and tracking of additions, removals and changes to key data
- Development of a statistics dashboard integrated with the museum's collections management system to monitor workflow progress as part of the New Museum project
- Specification and mapping of workflow processes and system requirements to technical solutions through workshops with a wide range of stakeholders (internal, external, technical and non-technical)
- Management and prioritisation of multiple simultaneous projects
- Management of system suppliers and carrying out User Acceptance Testing
- Implementation and testing of system changes and upgrades via a sandbox environment
- Collections management system and Oracle database administration (understanding of tables, views, triggers, packages, procedures, roles, permissions and user account management)
- Design and implementation of image ingest processes, including metadata extraction, use of PowerShell, image manipulation libraries, automated reports/notifications and integration with Oracle database
- Manipulation and migration of a wide variety of datasets including osteology and archaeology data
- Zebra label printer implementation and integration with existing systems

### Documentation Officer 2013-2019

Museum of London

- Developing and providing a training programme and support helpdesk for system users
- Oracle Database and user account administration for Collections Management System (Mimsy XG)
- Oracle SQL/PLSQL, data migrations, data cleaning, integration of Excel via ODBC
- Creation of advanced Crystal Reports

- Publication of collections online, and management of integration middleware software

### **Collections Systems Developer**

**2006-present**

Glenside Hospital Museum, Bristol

- Configuration and implementation of a collections management system, and continued provision of support and hosting in a voluntary capacity
- Oversaw a project to redevelop the museum exhibition spaces during 2009-2010, which involved oversight of external contractors

### **Collections Information Officer**

**2011-2013**

Science Museum, London

- Worked on two large scale projects to improve quality of collections data for 1,800 objects decanted from the Ships Gallery, and 1,200 objects as part of a project to identify and categorise controlled drugs

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### **Education**

#### **M.A. in Museum Studies (First class degree)**

**2010-2011**

University of Leicester

#### **B.A. Honours in Fine Art (Upper-second-class degree with honours)**

**2006-2009**

University of the West of England

#### **Foundation Diploma in Art (Distinction)**

**2005-2006**

University of the West of England