Luke Pomeroy

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About Me

I'm a self-starter with a curious and eager interest in technology. I've worked in back-end systems development roles within museums for over ten years. I'm passionate about learning new technologies and programming languages, and get satisfaction from making and implementing real tools that really solve end-users problems in creative ways. I also enjoy creating IoT devices using Arduino microcontrollers and 3D printing, as well as creating applications using web application frameworks such as Django to interface with these devices. I'm looking for a developer role with a back-end focus.

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, database structures and object orientated programming 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 importance of test driven development

Technology and Tools

- HTML5 and CSS

- Python and Django web application framework

- Databases: MySQL, SQLite and Oracle SQL

- Node.js and Express web application framework

- Git and GitHub for version control

- AWS and Oracle Cloud computing

- Data interchange formats including JSON, CSV and XML

- Apache web server implementation and configuration

- Arduino microcontrollers and 3D printing software/hardware

Projects

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. The Django app utilises several packages including django-crispy-forms, django-tables2, django-filter, django-versatileimagefield, django-import-export, django-geoposition, and Chart.js for displaying environmental data readings in a graph. This app is hosted on an Oracle Cloud E2.1 micro instance.

ImageAPI - *A Node.js and Express app for serving derivative images on-the-fly*   **2020**
I built this app using Node.js, Express and the lovell/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 of images within Crystal Reports, and to overcome issues relating to image scaling and report load times.

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 an instance of Collective Access in a voluntary capacity for Glenside Hospital Museum in Bristol. This involved defining a data structure via an XML schema based on Spectrum (the UK standard for managing museum collections) and configuring a server to host the application, initially on an AWS t1 micro instance. I now have the application hosted on an Oracle Cloud E2.1 micro instance, and have continued to provide support to system administrators and users for around 6 years.

Training Courses and Certifications

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**

Career Summary

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

Work Experience Placement
2011

Bristol Museums, Galleries and Archives

- Editing and inputting collections data via the Collections Management System (KE Emu)

Archival Assistant
2009

University of Bristol Theatre Collection

- Voluntary position involving documenting collections and updating the Collections Management System, including data entry and retrieval

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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

A/AS Levels
2003-2005
Downend Sixth Form, Bristol
Art (A), Psychology (B), Photography AS (C), General Studies AS (A), Biology AS (C)