PETER MCCREADY

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Personal Profile

Passionate and motivated Software Developer with an MSc in Geospatial & Mapping Sciences and a 2:1 BSc in Geography from the University of Glasgow and work experience with Scottish Water. I am currently expanding my skill-set by undertaking the Professional Development Award in Software Development at CodeClan in Glasgow (due for completion in January 2018).

Technical Education

09/2017
01/2018

Professional Development Award in Software Development (4 months)
CodeClan | Glasgow, Scotland
Award-winning immersive programming course teaching Test Driven Development, Object Oriented Programming, project planning, user experience, software design principles and code best practices. (Best Education / Training provider - ScotlandIS Digital Tech Awards 2017).

- **Agile SDLC:** daily stand-ups, paired programming and mob programming.
- **Agile Tools:** GitHub Projects, Slack and Trello.
- **Database Management:** PostGres SQL, SQLite (in Android Studio) and noSQL MongoDB.
- **Debugging:** automated unit tests, data flow, and IDE breakpoints/debugger in Android Studio.
- **Design Patterns:** Model View Controller (MVC) and Singleton.
- **Development Principles:** DRY, SOLID and the 4 Pillars of Object Oriented Programming.
- **Markup and Style Sheet Languages:** HTML5, CSS3 and XML (in Android Studio).
- **Programming Languages:** Java, JavaScript, Ruby and SQL.
- **Project Planning:** activity, class, object, site map, table and use-case diagrams. Implementation constraints documentation and pseudocode.
- **Test Driven Development:** automated testing using MiniTest in Ruby, JUnit and Mockito in Java, and Behaviour Driven Development using Mocha in JavaScript.
- **User Experience Considerations:** proto-personas, user stories, and wireframes.
- **Version Control:** Git and GitHub (backup repositories in BitBucket).

Projects:

1) **Record Store:** a **full-stack Record Store Stock Management web application** created using Ruby, TDD (MiniTest), the MVC design pattern and Sinatra framework. The application back-end utilises a PostGres SQL database to display, add, edit and remove Artist/Album stock and costing data, and is controlled from a web front-end interface. **Readme**.

2) **Top Trumps:** an **Android Rick and Morty themed Top Trumps application**. The application was created in Android Studio using Java, TDD (JUnit) and the Singleton design pattern. The back-end consists of object classes and game logic. The front-end consists of six interconnected Android Studio activities. **Readme**.

3) **GIN!**: a **full-stack Gin Bar and Distillery web application** created using BDD (Mocha), Vanilla JavaScript, Webpack, MongoDB and Node.js. The application utilises Google Maps APIs (Maps, Places, Geolocation, Directions, Distance Matrix) and a custom Venue API to provide the user with venue details, mapping and directions to selected venues. **Readme**.

Further Education

09/2015
09/2014

MSc (Merit) Geospatial & Mapping Sciences (1 year)
University of Glasgow | Glasgow, Scotland

Geomatics data capture, data processing and data presentation techniques in Land and Hydrographic Surveying (the course is accredited by RICS and ICES).
Thesis: A comparative study of Terrestrial Laser Scanning and Photogrammetry.

09/2012
09/2008

BSc (Hons) Geography 2:1 (4 years)
University of Glasgow | Glasgow, Scotland

Qualitative and quantitative aspects of Physical and Human Geography, including GIS.
Dissertation: Pollution and Urbanisation (3 weeks fieldwork in Dar es Salaam Tanzania).

Work Experience

06/2017
01/2017

Software Tester (6 months)
WPR Solutions | Working Remotely, Glasgow

Software testing of a Visual Basic and Microsoft Access Kilt Hire stock management system.

04/2017
10/2015

ICC Developer / Business Analyst (2 years, 10 months)
Scottish Water | Stepps, Glasgow

Situational Awareness system developer involved in Water and Wastewater Network Schematic creation, review and maintenance.

08/2014
02/2014

- Network sketching from GIS, Graphworx modelling and telemetry alarm configuration.
- Network Schematic file **publication** to Development, Test and Production environments.
- **Task management** of two team mailboxes (Development Team Loggers and General).
- **Project requirements gathering** with Control Centre clients.
- **Business process modelling** to map Development Team processes.
- User manual and rollout **documentation writing**.

09/2013
02/2013

- Product **testing** before go-live in the Control Room and rollout coaching to Control Room staff.

Systems: Excel, Visio, SmallWorld GIS, Graphworx64, Open Enterprise and Alarm Tools.
Achievements include:
- Development of a **coordinate transformation method** to batch plot more than 3,800 Scottish Water Assets on a custom live weather map displayed in the Control Room.
- Creation and testing of **special event dashboards** for the Commonwealth Games, Edinburgh Marathon and Royal Troon Open Golf Championship using Graphworx64.

02/2013
10/2012

Senior Data Investigator (5 months)
QCData/Scottish Power | Eurocentral, Glasgow

Scottish Power asset data cleansing project using SAP, ESRi ArcMap and PowerOn systems. My role involved staff training and the distribution and quality assurance of investigator work packages to ensure synchronisation of asset details across all systems.

Interests

My interests include **snowboarding**, **football**, **hill-walking** and **running**. I love **traveling** and spent 4 months exploring Australia and New Zealand between October 2013 and January 2014. In my spare time I enjoy **video editing** to create ski holiday videos for family and friends.