LEAD SOFTWARE DEVELOPER

Issued: 3 December 2014

Lead Developer – Salary Grade 12-13 (starting salary £38,393)

Permanent

Closing Date: 4 January 2015

About Yorcard

Yorcard is tasked with delivering the benefits of ITSO smart ticketing to public transport users in the Yorkshire Region. It has been set up by South Yorkshire Transport Passenger Executive and West Yorkshire Combined Authority to offer a range of services and products to local authorities and transport operators so that interoperable and smartcard ticketing in the Yorkshire Region can be brought into reality.

South Yorkshire Transport Passenger Executive and West Yorkshire Combined Authority as well as City of York Council have been successful in securing funding for Yorcard through the Better Bus Area Fund to deliver further highly visible ITSO ticketing software. Yorcard is seeking to expand its development team to help deliver and maintain:

- A back office and reporting system;
- A Travel Money system;
- Web services to provide retail solutions;
- Desktop, web and mobile apps;
- Integration with customer and card management systems.

Applicant Information

Yorcard is looking for someone with experience of developing, maintaining and documenting robust scalable solutions to join its successful development team as the Lead Developer. By joining Yorcard you'll also be working on a very visible public facing project that has real scope for changing people's perception and use of public transport.

The postholder will be employed by Yorcard in Sheffield and report to the General Manager.

Applicants should send a CV and covering letter stating how they meet the job description and person specification to john.henshall@yorcard.co.uk.

Successful applicants will be invited to interview at Yorcard's offices in Sheffield. Interviews will include a practical exercise.

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Job Description / Employee Specification

Job Title:	Lead Developer
Contract length:	Permanent
Reports To:	General Manager
Location:	Sheffield
Salary Grade:	12-13
Date of issue:	December 2014

Job Purpose:

The purpose of this job is to lead the development team in the development and maintenance of software to support Yorcard's business offerings including a back office and reporting system, a Travel Money system, web services to provide retail solutions and, desktop, web and mobile apps.

The post holder will report to the General Manager and be required to assist in the design, development and maintenance of robust, scalable solutions.

Responsibilities/Key Accountabilities:

1. Working within the scheduling and architectural constraints, develop software solutions which deliver the functional and non-functional requirements of Yorcard's customers and Stakeholders for an ITSO-compliant smart ticketing system, taking into account the pre-existing systems and services already in use at the Stakeholders and which facilitates the implementation of agreed future functionality.

2. Document the design of the components as required to demonstrate that the software will conform to the requirements of the overall system design.

3. Lead the development of software to Yorcard's established standards, taking particular note of quality, availability, scalability and security requirements.

4. Support testing by working with the Test Manager to prepare the system for unit, integration and user testing.

5. Be responsible for assigning tasks to the development team to rectify faults in the developed software and ensure faults are rectified in a timely manner.

6. Deploy and maintain Yorcard solutions at scheduled times, including occasionally outside normal working hours.

7. Any other duties commensurate with the post as directed by the General Manager.

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Essential Knowledge, Skills and Experience Required:	How Assessed
Knowledge Required Strong understanding of IT systems development and testing processes and technologies	Application form/ Interview/ Assessment
Strong understanding of Web Services, RESTful principles and service oriented architecture	Application form/ Interview
Skills Required C# 4	Application form/ Interview
ASP.NET Web API	Application form/ Interview
MVC (Model–View–Controller) / MVVM (Model-View-ViewModel) / MVP	Application form/ Interview
Entity Framework	Application form/ Interview
T-SQL (Transact-Structured Query Language)	Application form- Interview
XML / XSLT	Application form- Interview
Able to document the developed software to the required standards	Application form/ Interview
Ability to communicate system design and approach	Interview
Strong team working skills	Interview
Experience Required: Substantial experience within a relevant IT systems development and implementation role including using different system architectures	Application form
Substantial experience of relational databases and systems design	Application form/ Interview
Substantial experience of multi-tiered programming techniques for web applications	Application form/ Interview
Substantial experience of multi-tiered programming techniques for desktop applications	Application form/ Interview
Experience of developing interfaces between systems using Web Services and supporting technologies	Application form/ Interview

Desirable Knowledge, Skills and Experience Required:	How Assessed
Useful Knowledge Good knowledge of ITSO smart card ticketing systems	Application form/ Interview
Knowledge of Customer Relationship Management systems	Application form/ Interview
Understanding of the implications of legislation affecting IT use, including the Data Protection Act	Interview
Useful Skills Reporting Services	Application form/ Interview
Analysis Services	Application form/ Interview
JQuery and Javascript	Application form/ Interview
WPF (Windows Presentation Foundation)	Application form/ Interview
WCF	Application form/ Interview
HTML5	Application form/ Interview
CSS	Application form/ Interview
JSON	Application form/ Interview
Bug tracking & time management using Jira or equivalent	Interview
Mobile Application Development (ie: iOS, Android)	Application form/ Interview
Experience Required: Experience within a related industry or use of comparable systems	Application form/ Interview

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