**HASSAN M. REZK**

Redmond, Washington

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**Sr. Software Engineer**

Exceptionally skilled computer programmer and web developer with eleven years of solid hands-on experience in application and systems design, development, testing, and integration. Adept at communicating with key stakeholders to identify core requirements. Proven skills as an analyst and problem solver dedicated to delivering the optimal solution to complex business technology problems. Expertise in the full software development lifecycle, driving achievement of key milestones to produce innovative new technologies.

Computer Programming • Software Design & Development • Requirements Analysis • Software Engineering

Application & Systems Testing • Technology Implementation • Systems Integration • Process Optimization

User Interface Design • Problem Solving • Solutions Delivery • Software Development Lifecycle

**Languages:** C#.NET, VB.NET, Scala, Java

**Web:** ASP.NET, ASP.NET Core, HTML5, CSS3, JavaScript, jQuery.

**Databases:** T-SQL, MySQL, Firebird, Microsoft SQL Server

**Tools:** Visual Studio 2005-2015, NuGet Packages, Azure Tools.

**Source Control:** Tortoise SVN, Visual Source Safe (VSS), Team Foundation Server (TFS), Git.

**Platforms:** Windows, Windows Server, Amazon Web Services (AWS), Azure

**Skills:** Agile, SDLC, Scrum, Unit Tests, Object Oriented Programming (OOP).

**PROFESSIONAL EXPERIENCE**



**Microsoft, Redmond– (August 2017 – Present) – Fulltime**

**Software Engineer II**

* Optimize existing systems and data pipelines, building infrastructure and eliminating manual work through automation
* Apply availability, performance and scalability expertise to ensure DOT services continue to meet partner expectations
* Troubleshoot live site issues, driving mitigation and implementation of bug fixes to restore the service
* Design and development to improve existing functionality and features
* Constantly improve customer experience through quantitative service monitoring, alerting, and the use of data and operational dashboards
* In-depth data analysis to identify service trends and make necessary adjustments and improvement
* Support operational security through application of process and technology
* Introduce and maintain continuity and recoverability capabilities
* Develop and improve the tools and services necessary to support the DevOps model



**John Deere, Des Moines – (July 2015 – August 2017) – Fulltime**

**Sr. Software Engineer**

* Determines operational feasibility by evaluating analysis, problem definition, requirements, solution development, and proposed solutions.
* Documents and demonstrates solutions by developing documentation, flowcharts, layouts, diagrams, charts, code comments and clear code.
* Prepares and installs solutions by determining and designing system specifications, standards, and programming.
* Improves operations by conducting systems analysis; recommending changes in policies and procedures.
* Obtains and licenses software by obtaining required information from vendors; recommending purchases; testing and approving products.
* Updates job knowledge by studying state-of-the-art development tools, programming techniques, and computing equipment; participating in educational opportunities; reading professional publications; maintaining personal networks; participating in professional organizations.
* Protects operations by keeping information confidential.
* Provides information by collecting, analyzing, and summarizing development and service issues.
* Accomplishes engineering and organization mission by completing related results as needed.
* Develops software solutions by studying information needs; conferring with users; studying systems flow, data usage, and work processes; investigating problem areas; following the software development life cycle..

 **DuPont Pioneer, Des Moines – (June 2015 – Sept 2015) - Contract**

**Sr. Software Developer**

* establishing a detailed program specification through discussion with clients;
* clarifying what actions the program is intended to perform;
* breaking down program specification into its simplest elements and translating this logic into a programming language;
* devising possible solutions to anticipated problems;
* working as part of a team, which may be established purely for a particular project, to write a specific section of the program;
* combining all elements of the program design and testing it;
* testing sample data-sets to check that output from the program works as intended;
* conducting testing and installing the program into production;
* reacting to problems and correcting the program as necessary;
* evaluating and increasing the program's effectiveness;
* adapting the program to new requirements, as necessary;
* conducting user acceptance testing to ensure the program can be used easily, quickly and accurately;
* writing detailed documentation for the operation of the program by users and computer operators;
* consulting manuals, periodicals and technical reports to learn new ways to develop programs and maintain existing skills and knowledge;
* Updating, repairing, modifying and developing existing software and generic applications.

 **Wells Fargo, Des Moines – (January 2015 – June 2015) - Contract**

Robert Half Technology is a leader among IT staffing companies, providing skilled IT professionals to match your IT staffing needs.

**Application Development Team Lead**

* Developing, maintaining and troubleshooting software programs for applications in PC and client/server areas.
* Working with appropriate departments within company during the development of new software products to define product requirements.
* Completing complex design for new software products upon approval of specifications and performing basic to complex maintenance on existing software products.
* Assisting others to enable complete program testing and develop specifications to resolve complex problems.
* Communicating new software features to internal and/or external customers
* Providing training to less experienced software designers. Providing technical leadership for planning and implementing software modules.
* **Technologies used in this position:** C#.NET, ASP.NET Web Forms, JavaScript, HTML5, WCF Services, Windows Services, TFS, Visual Studio 2013 Ultimate, Windows Azure, Microsoft SQL Server, Entity Framework, T-SQL.

**Two Rivers Marketing, Des Moines – (July 2014 – December 2014) - Contract**

Robert Half Technology is a leader among IT staffing companies, providing skilled IT professionals to match your IT staffing needs.

**Web Application Developer**

* Utilized written and oral communication to build team cohesiveness and to support clients directly.
* Defined site objectives by analyzing user requirements by envisioning system features and functionality.
* Designed and developed user interfaces to internet/intranet applications by setting expectations and features priorities throughout development life cycle.
* Determined design methodologies and tool set thereby completing programming by using languages and software products.
* Designed and conducted tests to ensure client expectations were met or exceeded.
* Recommended system solutions by comparing advantages and disadvantages of custom development including purchase alternatives to remain within project budget.
* Integrated applications by designing database architecture and server scripting; studied and established connectivity with network systems, search engines, and information servers.
* Created multimedia applications by using various authoring tools.
* Completed application development by coordinating requirements, schedules, and activities.
* Communicated in team meetings while focusing on troubleshooting development and production issues across multiple environments and operating platforms.
* Supported users by developing documentation and assistance tools.
* Updated job knowledge by researching new internet/intranet technologies and software products; participated in educational opportunities; studied professional publications; maintained personal and professional networks; participated in professional organizations.
* Enhanced organization reputation by accepting ownership for accomplishing new and different requests; exploring opportunities to add value to job accomplishments.
* Supported team members and developed web application developers by providing advice and coaching.

**Technologies used in this position:** VB.NET, C#.NET, ASP.NET, ASP.NET MVC 4, jQuery, AutoMapper, JavaScript, PHP, T-SQL, HTML5, GoogleMaps API, JSON.

**Compressor Controls Corporation, Des Moines – Jan 2014 – July 2014 - Fulltime**

Compressor Controls Corporation (CCC) has been leading the industry in turbo machinery controls for almost 40 years. They provide customized solutions for clients in industries that include oil and gas, chemical, petrochemical, refining, liquid natural gas (LNG), and power generation — both on new construction and retrofits on existing equipment.

**Software Engineer III**

* Provided input into architecture design and maintained responsibility for subsystem design.
* Took charge of integration of the design across subsystems.
* Expressed detailed knowledge of, and assumed the ability to implement complex techniques.
* Provided support of the validation phase of the development and the validation department.
* Efficient automation development skills, especially with 3S CoDeSys Platform.
* Designed, Implemented, and Developed the security system using the SSO pattern to ensure all different clients and servers are secured.
* Integrated WCF technology in local and remote communications between different modules.
* Communicated using Agile and cultivated common knowledge amongst team members.

**Technologies used in this position:** C/C++, Python, C#.NET, FireBug DB, WinForms.

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**Robert Half Technologies, Des Moines – Aug 2013 – Jan 2014 – Contract for Compressor Controls Corporation**

Robert Half Technology is a leader among IT staffing companies, providing skilled IT professionals to match your IT staffing needs.

**.NET Developer**

* Designed, developed, maintained software programs for applications in PC and client/server areas.
* Completed complex design for new software products upon approval of specifications and perform basic to complex maintenance on existing software products.
* Assisted others to enable complete program testing and developed specifications to resolve complex problems.
* Communicated new software features to internal and/or external customers.

**Technologies used in this position:** C/C++, Python, C#.NET, FireBug DB, WinForms.

**AL OBAIDLI & AL ZAROONI ADVOCATES & LEGAL CONSULTANTS, Dubai – Feb 2011 – Dec 2012 - Fulltime**

Top-ranking legal office with eight branches throughout the United Arab Emirates.

**Computer Programmer, IT Administrator & Communication Officer**

Led a major project to overhaul the local VB-based law firm system, transforming it into a network application with allowances for local database types. Developed the application into a PHP-based Oracle system, utilizing existing flow charts and class-diagramed general forms to map the basic process and data flow. Built classes capable of performing the same process in a network capacity. Conducted client and attorney interviews to identify and refine requirements. Coordinated systems integration to achieve a single cohesive system. Conducted subsystems testing. Programmed compatibility with smartphones, PCs, and software. Integrated C# and .NET applications with a dynamic linked MySQL.NET library, which allowed data gathering and storage via web crawler. Created the UI in HTML and JavaScript, with PHP for server-side functions. Handled application deployment and maintenance.

* Effectively revolutionized the law firm’s system in alignment with all necessary requirements and goals.
* Launched a wholly new systems design, successfully delivering all stages from concept through implementation.
* Improved accuracy and speed for information retrieval and generation regarding case status, action items, updates, and changes to court schedules, precedents, and legal statutes.
* Received numerous positive commendations for producing a program that became the standard for colleagues and competitors alike, positioning the firm with a competitive edge in the legal market.

**Technologies used in this position:** PHP, HTML5, CSS, JSON, JavaScript, jQuery, C#.NET, VB.NET.

**Developer for C. Charles Consulting (U.S.A Remote C2C) July 2006 - October 2011**

Consulting company providing freelance programming services; Collaborated with clients and partners to design and deliver unique applications for business and institutional needs.

* meeting with clients to determine requirements;
* working with clients to define the scope of a project;
* planning timescales and the resources needed;
* clarifying a client's system specifications, understanding their work practices and the nature of their business;
* travelling to customer sites;
* liaising with staff at all levels of a client organization;
* defining software, hardware and network requirements;
* analyzing IT requirements within companies and giving independent and objective advice on the use of IT;
* developing agreed solutions and implementing new systems;
* presenting solutions in written or oral reports;
* helping clients with change-management activities;
* purchasing systems where appropriate;
* designing, testing, installing and monitoring new systems;
* preparing documentation and presenting progress reports to customers;
* organizing training for users and other consultants;
* being involved in sales and support, and where appropriate, maintaining contact with client organizations;
* Identifying potential clients and building and maintaining contacts.

**Technologies used in this position:** C#, VB Classic, C++, Visual Studio 2005, SQL Server, NetBeans, Java

**EDUCATION**

**Bachelor’s Degree in Computer Science & Programming**

Modern Academy, Cairo, Egypt

(2010)

**Key Coursework:** Artificial Intelligence, Computer Theory, Computer Architecture & Organization, Computer Networks, Computer Security Techniques, Data Structures, Database Management, Distributed Computing, Electronics, Formal Languages & Automata, Fundamentals of Structured Programming, Image Processing, Information Systems, Introduction to Computers, Logic Programming, Multimedia Systems, Neural Networks, Numerical Computing Techniques, Operating Systems, Operations Research, Probability & Statistics, Quasi-Natural Language Programming, Software Engineering, Speech Processing, Systems Analysis & Design

**LANGUAGE SKILLS**

Arabic • English