Karl Stroud

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PROFESSIONAL SUMMARY

Full-stack .NET developer adept at customer-facing application development, back-end database design, DLLs, testing and optimization. Extensive experience in the oil and natural gas industry designing, maintaining, testing and troubleshooting mission-critical software.

SKILLS & TECHNOLOGY

- .NET
- C#
- VB
- WinForms
- MSSQL

- JavaScript
- Bootstrap
- jQuery
- CSS
- IndexedDB

- Visual Studios
- Windows Server
- Azure
- IIS
- Tableau/Power BI

EMPLOYMENT

Systems Engineer   Omega Project Solutions, Houston, TX   2012 – Present

I create, customize and deploy enterprise windows, web and offline-web applications with MSSQL back ends in an agile environment for clients in the oil and natural gas industry.

- 5+ years of experience contributing software engineering expertise throughout the entire product lifecycle, from requirements definition to successful deployment, subsequent maintenance and eventual archival and retirement.
- In-depth knowledge of SQL Server with extensive experience in database design, writing queries, stored procedures, functions, views, triggers, indexing, scheduled server jobs, etc.
- Front-end desktop application development in Visual Studios using C#, VB.NET and WinForms.
- Front-end web development in HTML, JavaScript, jQuery, CSS, Bootstrap with a SQL Server backend.
- Extensive experience with JavaScript libraries such as jQuery, Bootstrap and High Charts.
- Extensive experience with reporting tools such as Tableau, Power BI and DevExpress.

Health & Benefits Analyst   Mercer, Houston, TX   2012

- Performed data management and integration in an oracle, healthcare database.
- Worked with health & benefits databases to generate reports and troubleshoot data integrity issues.
- Documented department procedures by creating job aids and processing guides.
- Troubleshooting health & benefits issues, updating accounts and system configuration.

Infrastructure Support Analyst   JP Morgan Chase, Houston, TX   2011

- Remotely monitored JP Morgan Chase investment banking servers world-wide, reported and investigated automated and user generated alerts in real time.
- Interacted with JPMorgan personnel around the world investigating and addressing server related issues brought to our attention.
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EDUCATION

Bachelor of Science in Computer Science, Minor in Math   2011

University of Houston, Houston, TX

Projects

- Offline Checklists: I used indexed DB's to create a cross browser compatible mobile website that stored offline copies of relevant database objects so the website would be fully functional without an internet connection. Users operating in the field use it to scan QR codes on equipment, bring up the corresponding checklists, and to add notes and take pictures with their mobile device. Then as soon as they have data again everything will resync with the database without any further action on their part.
- Workflow: I worked with a team of seven other developers to create an application that allows users to generate custom workflow websites on their own with corresponding of automated notifications, signature requests and reminders, required files, report generation, etc. Users would use our application to design and create their own workflow websites with extensive server-side business logic.
- Project Archive: I created an application that converts interface management databases for archived solutions into tens of thousands of files and reports housed in searchable websites using sql code and file crawlers to generate html files en masse and transfer the contents of the file store server to the auto-generated folders corresponding to their assigned relative html paths.
- Health, Safety & Environment (HSE): Worked with a team of several other developers to create a flexible set of software applications that effectively managed the various safety programs of our clients. The application was primarily web based with over a hundred sites and an extensive database backend. My contributions included interactive personnel on board maps to track the status and quantity of personnel on offshore facilities throughout the Gulf.
- Windows Form Development: I have extensive experience developing hundreds of windows forms in addition to the underlying DLL's that comprise various core features of our windows products.
- Safety Communications: I created a suite of web and windows applications with corresponding database backend meant to automatically convey key safety announcements and upcoming government visits to large numbers of people *and* track exactly who read what and when.
- Contract Management: I worked with one other developer to create a suite of windows forms applications and the corresponding database backend to support the management of contracts from pre-award (tendering) through tender evaluation, contract award, post award and close out.
- On-Site Software Deployments: I've installed my company's custom software on numerous corporate intranets in a complex process that incorporates web and database servers, among other things.