Zalak Shah

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Competency Profile:

Programming Languages : C++, Java, PL/SQL, STL, Shell Scripting, XML, Perl, R, Python
Web technologies : HTML5, CSS, jQuery, AJAX, JavaScript, J2EE, Spring MVC, Hibernate, ORM, JSP, Node.js
Data Tools : Oracle 12c, SQL Server, PostgreSQL, MySQL, Tableau
Programming Tools : IntelliJ, Visual Studio IDE, Eclipse, Azure ML Studio, Putty, Secure CRT
Management Tools : Git, Bit Bucket, Wireshark, HP Quality Center, CVS, Perforce, SVN

Work Experience: 6+ years

➤ **Tradeweb | AVP Technology | Feb 2018 – Present | Tradeweb Markets LLC, USA | Financial Services**
- Developed, maintained and supported the Institutional Fixed Income products using C++, SQL Server, Shell and Perl scripting which were deployed and managed with Git
- Designed and implemented an auto-email notification system using Perl scripting, ODBC and HTML, resulting a higher sales matrix for the client
- Triage the production issues, worked with cross functional QA and Dev teams, which resulted in 5% decrease in turn-around time

➤ **MathWorks | Release Engineer Intern | August 2016 – January 2017 | The MathWorks, USA | Education**
- Build, Tested and Packaged a Continuously Integrated Products; using C++, Perl Scripting; achieved higher product quality and met delivery requirements
- Developed a web interface; using HTML5, CSS3, JavaScript, JQuery and AJAX; achieved the higher level of abstraction and web verification
- Introduced the database connection in the tool; using Hibernate API, XML-based request-response, and XML parser; resulted in error-free automated product list retrieval

➤ **HSBC GLT India | Software Engineer | June 2014 – August 2015 | HSBC Bank, London | Financial Services**
- Developed a sustainable banking product using C++, on Unix platform (*GlobalPayPlus)*, which catered the SWIFT message communication with the HSBC core processing engine
- Performed triage as a part of defect management, efficiently resulted in faster turn-around time for the defects more than 70%
- Optimized the resource utilization for the weekly batch cycle, rendered a solution in form of Perl utility; reduced the batch cycle time frame from 6 hours to 15 minutes

➤ **Atos India Pvt Ltd | Software Developer | Aug 2011 – May 2014 | Worldline, Belgium | Financial Services**
- Designed and implemented financial services solutions using C++, Oracle PL/SQL, XML, and Perl which were deployed on a UNIX platform using Tuxedo as middleware with minimum/no rework
- Restructured, optimized and integrated new features in the framework using various algorithms, STL, Data structure; reduced transaction time by over 30%
- Developed an end-to-end Integrated Payment Software Solution, using the Worldline Pay e-payment services product of Worldline

Projects:

➤ **SmartBike | Advance Data Science Project [Azure cloud, C#, R, PowerBI, Azure ML Studio, Visual Studio IDE]**
- Built a Data Science system to predict bike rental demand for at any given time using the Random Forest Algorithm; which achieve an accuracy of almost 99.5%
- Model focusing on various factors like date, time, also some derived features; that contribute to give us the correct number of users; application used for bike inventory management and user promotions

➤ **QAsk | Web Application | [Java EE, Spring MVC, HTML5, AJAX, JavaScript, JSON]**
- Developed web application using Java EE, where questions are asked, answered, edited and organized by users. User can select categories of discussion, create question threads and have discussion boards
- Implemented the Apache Tiles Framework in order to build page fragments which can be assembled into a complete page at runtime
- Implemented Spring MVC hibernate framework using Annotations

➤ **SmartYou | A IOT Application [Java SE, Swing Framework, db4o]**
- Developed an application in Swings (Java SE) to manage person's financial, medical, household-appliances – health check-up; resulted in a one-stop app for multiple problems
- Used the Internet of Things - smart devices like Health Bands, Heart Monitors, Smart Lightings, and Email Exchange to synchronize data of the application
- Implemented the design pattern- Singleton, Abstract factory pattern

Education:

➤ **Northeastern University, Boston, USA**   **May 2017**
Master of Science in Information Systems (Computer Science related field)

➤ **Sardar Vallabhbhai National Institute of technology, Surat, India**   **May 2011**
Bachelor of Technology in Electrical Engineering

GitHub Link: https://github.com/zalak13