Zalak Ujjvalkumar Shah
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Education:

- **Northeastern University, Boston, USA** **May 2017**

Master of Science in Information Systems.

- **Sardar Vallabhbhai National Institute of technology, Surat, India** **May 2011**

Bachelor of Technology in Electrical Engineering.

Competency Profile:

Programming Languages : C++, Java SE, PL/SQL, STL, Shell Scripting, XML, Perl, R, Multi-threading.
Implementing Technologies (Beginner): Python, Machine Learning, Hadoop, HDFS, Block chain Engineering.
Data Tools : Oracle 12c, SQL Server, PostgreSQL, MySQL, Toad Data Modeler, Tableau, Power BI.
Programming Tools : NetBeans, Visual Studio IDE, Eclipse, Azure ML Studio, Putty, Secure CRT.
Web technologies : HTML5, CSS, JQuery, AJAX, XML, JavaScript, J2EE, Spring MVC, Hibernate.
Management Tools : HP Quality Center, CVS, Perforce, SVN, Git, Bit Bucket.

Work Experience: 4+ years

- **MathWorks | Release Engineer Intern | August 2016 – January 2017 | The MathWorks, USA.**
  - 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.
  - On completion of this full stack project, it resulted in a smooth web interface tool to create the software packages for testing and web handoffs.
- **HSBC GLT India | Software Engineer | June 2014 – August 2015 | HSBC Bank, London.**
  - Worked on *GlobalPayPlus* in order to develop sustainable banking product for HSBC Bank. It catered the SWIFT message communication messages within 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.**
  - Designed and implemented solutions using technologies 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 %.
  - Worked on the Worldline Pay product of Worldline, e-payment services in order to develop an end-to-end Integrated Payment Software Solution.

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 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; utilized in a bike inventory management and user promotions.
- **QAsk | Web Application | [Java EE, Spring MVC ,HTML5, AJAX, JavaScript, JSON, Eclipse IDE]**
  - Developed a web application in Eclipse (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 Spring MVC hibernate framework using Annotations.
- **SmartYou | A IOT Application [Java SE, NetBeans IDE]**
  - 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- Abstract factory pattern

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