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, IntelliJ, Eclipse.
Blockchain Technologies : Python, Machine Learning, Block chain Engineering, Docker, Solidity, Ethereum, Bitcoin, Hyperledger Fabric, Ripple, Truffle, MetaMask.
Data and Management Tools : Oracle 12c, MySQL, Tableau, Power BI, Perforce, SVN, Git.
Web technologies : HTML5, CSS, JQuery, AJAX, XML, JavaScript, Spring MVC, Hibernate, REST, Node.js,.

Work Experience: 5 years

- **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**
  - Worked on C++, Unix platform (*GlobalPayPlus)* to develop sustainable banking product, 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 %.
  - Worked on the Worldline Pay product of Worldline, e-payment services to develop an end-to-end Integrated Payment Software Solution.

Projects:

- **Ecommerce | Ethereum DApp | [Ethereum EVM, Solidity, MetaMask, Truffle, Geth]**
  - Built a DApp solution to buy and sell commodities using Solidity on a Ethereum Framework. The application was tested on the private blockchain and Rinkeby using the Geth, Solc compiler and truffle framework.
  - Added an ecommerce interface over the Blockchain technology to simulated a marketplace; observe the DLT in the user interface events.
- **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.
- **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