SAHIL SHETYE

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EDUCATION

University of Illinois at Chicago	University of Mumbai
Masters in Science in Electrical & Computer Engineering	Bachelors in Science in Biomedical Engineering
May 2016, GPA 3.37/4	**May 2014, GPA 3.6/4**

Coursework: Computer Algorithms and Data structures, Advance Computer Architecture, Computer System Design, Image Analysis and computer vision, Advanced Computer Communication Networks

TECHNICAL SKILLS

- **Technical Languages**: JAVA, Scala, C#, .NET, Python, JS.
- **Database**: MySQL, MongoDB, Elastic Search, MSSQL, Redis.
- **OS:** Unix, Windows.
- **Web Framework**: Spring, ASP.NET, Flask, Symfony2, Express
- **Tools:** Docker, Puppet, Vagrant, Maven, Ant.
- **CI/CD Tools:** VSTS/TFS, Jenkins.

PROFESSIONAL EXPERIENCE

LANZATECH INC.   **Chicago, IL**
Software Engineer   *August 2015-Present*

- Developed and Designed multiple tools in .Net for data pipeline which acquires data from about 200 instruments and actively logs about 3M data points daily onto a Transactional SQL DB.
- Designed and implemented REST API for micro service web application to automate file uploads for data repository.
- Developed a data pipeline in JAVA for bioinformatics tool called Geneious for logging information directly to DB/MongoDB.
- Authored an Open Source Python Module to extract data from bioinformatics tool called Breseq extractor.
- Developed a Python REST client to consume micro services which enable uploading terabyte of data to DB.
- Successfully migrated 4 major .Net, Python, JAVA and PHP application from Team foundation Server to VSTS for improved CI workflows. Jenkins, Maven, ANT were integrated with VSTS for introducing Continuous Delivery.
- Introduced Logstash and Elastic Search for logging all transactional logs from 15 SQL server to monitor health metrics for design. This enabled us to improve resource allocation for each server and eliminate bottlenecks in the data pipeline.
- Deployed Puppet scripts to setup correct environment on development and production Server VM.
- Designed a web app which tracks 10 Million samples using ASP.net\MSSQL which increased operational efficiency by 10%.
- Redesigned schemas for MSSQL, MySQL, PostgreSQL databases to reduce server usage up to 20% during peak time.
- Architected and built web application in Symfony2(PHP) for processing 30TB of data and warehousing it on MySQL.

LANZATECH INC.   **Chicago, IL**
IT Instrumentation Intern   *May 2015-July 2015*

- Built FPGA Gas Mixing Real-time application on .NET which enabled a cost saving of about $100K.
- Removed Bugs from 4 GUI based core .net application used in lab which had 30 instances deployed within the lab.
- Authored documentation and release notes for 5 applications along with debug steps to be used as reference company-wide.
- Recognized by CEO for directly impacting commercial project by providing technical expertise.

OTHER PROJECTS

Visitor Sign in System   *September 2016*

- Wrote a web application to register visitor sign-in with H2(in-memory) database capable to support 100 people using Spring.
- Tools: Java, Spring, Twitter Bootstrap, Hibernate,H2.

Transit Authority Alerts on Amazon Echo Skill   *September 2016*

- Created an Amazon Alexa skill for finding Real-time bus arrival for Chicago Transit authority hosted on AWS Lambda.
- Tools: Nodejs, npm, mocha for automated testing, chai, REST, API, DynamoDB, AWS Lambda.

Short URL Generator API   *January 2017*

- Implemented a simple short URL based web API using Play framework with backend in redis hosted on AWS.
- Tools: Scala, Play, MySQL, AWS EC2.

Best Currency Transfer Rate Amazon Echo Skill   *January 2017*

- Adapted Moneytis API response to notify Best time to transfer your money overseas for Amazon Alexa Skill Kit.
- Tools: JAVA API for Alexa Skill Kit, DynamoDB, AWS Lambda.