

# Venkata Siva Abhishek Munukutla

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## Education

### **Master of Science, Information Technology (Information Systems)**

Arizona State University, Mesa, Arizona, US

August 2017 – May 2019

GPA: 3.89

### **Bachelor of Engineering, Information Technology**

MVSR Engineering College, Hyderabad, India

August 2012 – June 2016

GPA: 3.4

## Experience

### **Graduate Services Assistant at Arizona State University, Mesa**

January 2018 – Present

**Course:** Introduction to Java Technologies

- Assist professor with instructional responsibilities.
- Hold a weekly tutoring session during office hours to address questions about homework and labs.

## Skills and Technologies

**OS** : Linux, Windows XP/7/8/10, CentOS

**Languages** : C, C++, Java (including Servlet and JSP), SQL, JavaScript, PHP, Python, HTML, CSS, PERL, T-SQL, PL/SQL

**Databases** : MySQL, Oracle 9i, MS SQL

**Tools** : NetBeans IDE, Eclipse IDE, XAMPP, WAMP, Apache Tomcat, MS SQL Server Management Studio, Virtual Box, Microsoft Office, Packet Tracer, Matlab, Powershell, OpenSSH, IntelliJ IDE

**Web Services** : Amazon Web Services (EMR, S3, Athena, EC2, VPC, ELB, RDS)

**Version Control** : Git, Bitbucket

## Publications

Published a paper titled "Internet of things: Obstacles and Challenges" in International Journal of Application and Innovation in Engineering and Management (IJAIEEM), Volume 5, Issue 10, October 2016.

## Academic Projects

### **Arizona State University, United States**

#### **Software Development for Triply Periodic Minimal Surface Heat Exchanger Project**

February 2018 – April 2018

Technologies: Python, Anaconda, MayaVi, VTK, PyQt

- Generate a 3D geometry of Triply Periodic Minimal Surfaces with point cloud, surface, and volume using Python Mayavi and VTK.
- Create a .STL file for further research on the geometry and finally, 3D print the model using Solidworks.
- Develop a GUI for the Engineering Team for the ease of use of the software.

#### **Analysing crime data from the city of Los Angeles using Amazon Web Services**

November 2017 – December 2017

Technologies: Java, AWS Elastic Map Reduce, AWS Athena, Tableau, and AWS S3

- Ran Map-Reduce on the data for a set of use cases on Amazon EMR in Step Execution Mode to analyze data.
- Connected Tableau Desktop to Amazon Athena to create Tableau Dashboards for visualizing output.

#### **Analysis of Enron Emails**

November 2017

Technologies: Python Jupyter Notebook, Anaconda, Enron Emails Data Set, Cloudera Hadoop Distribution, and Java (for Map Reduce)

- Analyzed the Data Set using Numpy and Pandas libraries in Python to discover the number of emails being sent from, to and within the organization.
- Ran Map Reduce on Cloudera Hadoop Distribution to retrieve the number of emails based on user and year.
- Visualized the retrieved information with Seaborn, Networkx and Matplotlib.

### **MVSR Engineering College, India**

#### **Continuous User Identity Verification for Secure Internet Services (Banking System)**

October 2015 – April 2016

Technologies: HTML, CSS, JavaScript, JQuery, JSP, Servlets, SQL, Netbeans, and SQLYog

- Developed a continuous authentication mechanism that improved security and usability of the user session.
- Additional layer improved security by 50 percent without compromising usability.
- Improved the accuracy of session control by triggering adaptive time-outs using JQuery.
- Developed a one-time password mechanism for secure transactions.

## Courses

Cloud Computing, Data Structures, Design and Analysis of Algorithms, Database Management System, Computer Networks, Object Oriented System Development, Operating Systems, Advanced SQL Programming, Big Data Analysis, Software Engineering, Software Testing, Web Technologies, Middleware Technologies, Data Communication