

SIVA SHANMUKHA HEMANTH KASYAP AGASTYARAJU

F – 102, H. No. 1-19/71/A/12, Rukmini Residency, Ayodhya Nagar Colony, Hyderabad - 500062, Telangana
+91 83746 18018 | shanmukha.agastyaraju@gmail.com | github.com/shannu95 | linkedin.com/in/shannu95

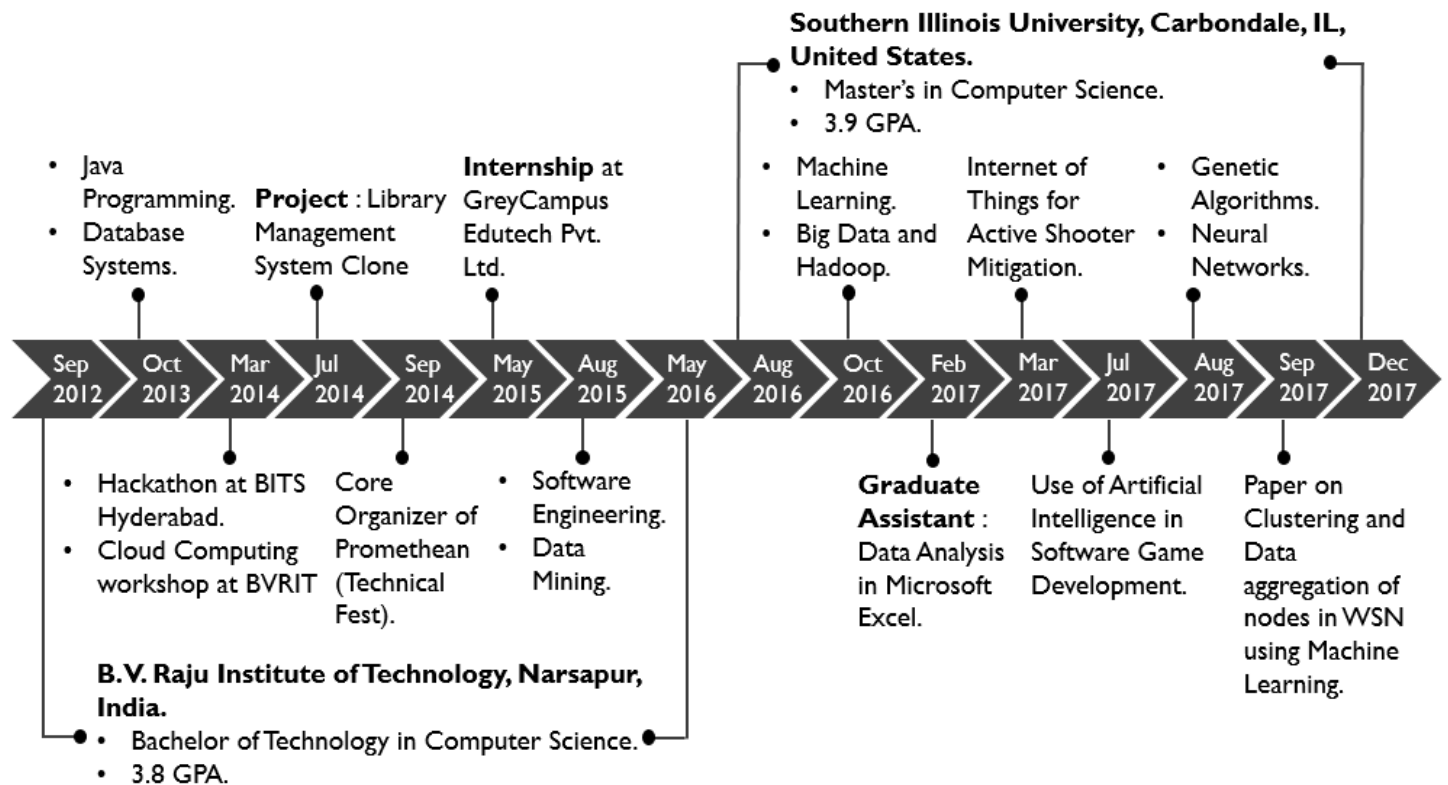
PROFILE SUMMARY

- Self-motivated individual with a curious, analytical mind and a passion for Data Science, Data Analytics and Software Game Development.
- Sound Knowledge in developing Machine Learning algorithms, such as Classification, Regression, Latent Semantic Analysis and Collaborative Filtering.
- Experience with processing and managing data using Python (NumPy, Pandas, Scikit-learn, TensorFlow), R and Hadoop.
- Worked with tools such as Tableau, ggplot2, Matplotlib and Seaborn for Data Visualization.
- Expertise in Core Java concepts such as OOP, Collections, I/O system, Multi-Threading, Swings and Generics.
- Experienced in analyzing data using HiveQL, Pig Latin and custom Java MapReduce programs.
- Skilled in Database design using Normalization forms, Entity Relationship Design (ERD) model, and application-oriented design.
- Excellent team-working skills, as well as strong independent problem-solving ability and a quick learner.

CORE COMPETENCIES

- Probability and Statistics.
- Data Visualization and Evaluation.
- Database Management.
- Data Wrangling.
- Predictive Modelling.
- Software Engineering and System Design.

CAREER TIMELINE



SKILLS

Programming: Python, R, Java, C, C++, C#, JavaScript, Bash, SQL, HiveQL, Pig Latin, PHP.

Applications/ Frameworks: NetBeans, Visual Studio, Eclipse, RStudio, Anaconda, SQL Server, Oracle, Tableau, Hadoop, MATLAB, Git, Microsoft Excel, Unity3D, Drupal, Apache Spark.

Operating Systems: Windows, Linux (Ubuntu), MacOS.

EXPERIENCE

Southern Illinois University, Carbondale, IL

February – December 2017

Graduate Assistant – University Core Curriculum

- Used Advanced Excel to analyze the effect of preparation and motivation of student on final course grades.
- Determined the proficiency of students by comparing pretest and posttest.
- Formatted data using pivot tables, LOOKUP functions and power pivot in Microsoft Excel.
- Developed excel slicers, charts and dashboards to present data in a usable format for upper management.
- Created complex Excel templates to extract student data in a proper and understandable format.
- Presented assessment reports to the Director of University Core Curriculum in a weekly manner.

GreyCampus Edutech Private Limited, India

May – July 2015

Intern, Drupal Developer

- Developed an intranet portal titled “GreyCampus Hub” using Open Atrium (Drupal 7 distribution).
- Set up the Drupal environment from scratch for the entire company using LAMP/WAMP and Acquia Drupal.
- Maintained availability applications and services using open source tools such as Linux, Apache PHP and MySQL.
- Designed frontend forms using Drupal theming and Drupal custom modules.
- Created user accounts and provided access control such that only the authenticated user can access the contents.

PROJECTS

Optimizing patient flow in Emergency Departments using Genetic Algorithms

C#

- Implemented a Genetic Algorithm for emergency departments to improve patient flow, while minimizing health care delivery costs.
- Utilized the Discrete Event Simulation (DES) model for the optimal allocation of service providers at each stage.

Twitter Sentiment Analysis

Python

- Achieved a reflection of public sentiment by developing a functional classifier for accurate and automatic sentiment classification of an unknown twitter stream using Twitter API and TextBlob (NLP library).

Similar Sentence Finder

Python (Scikit-learn)

- A program based on Latent Semantic Analysis (LSA) which captures the semantic similarity between a sentence from the given corpus with an input text.
- Achieved 90% accuracy by using Truncated Singular Value Decomposition and Cosine Similarity measure.

Diana's Destiny – A Third Person Action RPG 3D Game ([View Gameplay](#))

Unity3D

- Developed enemy AI for various levels with increasing difficulty where the enemy targets the player and decides when to chase and when to attack depending on the player's distance.

Script Analyzer

Python

- Analysis of the input scripts (JavaScript, PHP, Java, C++ and C#) to detect the possible location of a security attack in the code by using a dataset of security constructs.

File Sharing System

Java

- A file sharing system using File Transfer Protocol and Socket Programming that provides user authentication, a time sheet regarding the login time of each user and transfer of all kinds of data among multiple users.

Notown Musical Store

Java, MySQL

- A Database application for Notown Musical Store that provides Authentication, Modification and search for Notown staff members where the end users can only view the available music records in the store.

Dynamic Ontology Model for Text Classification

R

- A dynamic ontology model based on data mining algorithms which builds a word cloud and gives an appropriate answer to the users' query.

CERTIFICATIONS & ACHIEVEMENTS

- The Ultimate Hands-On Hadoop Certification from Udemy ([View Certificate](#)).
- Summer 2017 Graduate School financial aid award.