

SHREYAA SRIDHAR

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EDUCATION

- University of Southern California - Master of Science in Computer Science August 2018 – May 2020
- Amrita Vishwa Vidyapeetham - Bachelor of Technology in Computer Science GPA:9.25/10 August 2014 – May 2018
- Coursework: Artificial Intelligence, Pattern Recognition, Natural Language Processing, Data Structures & Algorithms, Computer Language Engineering, Big Data Analytics, Net-Centric Programming, OOP concepts, Operating System, Computer Organization and Architecture, Computer Networks, Databases, Automata theory, Software Engineering, Computer graphics

SKILLS

Research Interests: Artificial Intelligence, Natural Language Processing

Languages: Python, C++, C, MySQL, Web Development

Frameworks/Tools: Flask, Git, Keras, Tensorflow, STL, MySQL, MongoDB, Pig, Hive, BeautifulSoup

PROFESSIONAL EXPERIENCE

Defense Research Development Organization Research & Innovation | Summer Intern

May 2016 - July 2016

- Development of an optimized constrained random number-based assembly trace generator for data hazard detection in Out-of-order superscalar microprocessor.
- Created a python testing environment to compare the actual performance of the microprocessor.

PROJECTS

Passive GIS sync with social media

Apr 2017

- Project for Indian Space Research Organization (ISRO) and National Remote Sensing Centre (NRSC)
- Performed Sentimental Analysis on tweets extracted from twitter advanced search based on a list of all disaster and cities
- Extracted tweets using Twitter API and stored in MongoDB

Faculty Timetable Management

Nov 2016

- Developed a Faculty management system with Flask as a backend to system to pull from MySQL database. HTML and CSS used as frontend.

Image Based Object Recognition in Smart India Hackathon 2017

Mar 2017

- Recognizing objects from Images with Keras as a deep learning model and Tensorflow as backend.
- Used OpenCV to single out objects in the image.

Automated Sleep Apnea Detection with Heart Rate Variability and Respiratory Rate Variability

Feb - Apr 2018

- Heart rate and Respiratory rate variability as an input to Support Vector Machine backend classifier. The accuracy with the best set of features were obtained.

Poster presentation on “The impact of movies on the attitude of students”

Apr 2016

- Conducted a survey on freshman by showing some movies that create an impact on the environment. This survey was taken before and after the movie to observe change in the attitude of students.
- Presented at International conference for environment and ecology (ICEE) held at Bharathiar University, Coimbatore, India

Automated scripts to check University decision status

Jan 2018

- Acquired decision of application to various university by scraping the website.
- Coded HTML parser, BeautifulSoup (python package) that extracts content of the page and performs sentimental analysis to retrieve the decision status.

CO-CURRICULAR INVOLVEMENT

- Received Outstanding student award for the class of 2014-2018.
- Organized and coordinated events as ASCII (Association of students of computer science for Information Interchange) computer science society coordinator.
- Participated in Smart India Hackathon.
- Implemented a novel idea of heart rate monitoring shoes and presented as an innovative model at ‘Niyanthra’ hackathon by National Instruments and Titan hackathon.
- Participated in competitive coding contests by ‘CodeChef’, ‘SPOJ’, ‘Hackerrank’, ‘CodeForces’.
- Organized coding events as a Campus Ambassador for ‘HackerEarth’
- Conducted and Coordinated ‘Codewars 2.0’ events during Anokha, Amrita University’s Technical Event
- Part of Google Developer Groups and Women Tech Makers
- National-level Tennis Player