

SHRIYA SASANK

shriya@cs.ucla.edu | +1 (650)-441-4433

<https://www.linkedin.com/in/shriyasasank> | <https://github.com/shriyaEsha>

ACADEMIC QUALIFICATIONS

University of California, Los Angeles

Masters in Computer Science Engineering

Sep 2016 – Dec 2017 (Expected)

GPA 3.611/4.0

Coursework: Big Data Analytics, Health Analytics, Current Topics in Big Data Structures, Distributed Database Systems

College of Engineering, Guindy, Anna University

Bachelor of Engineering, Computer Science and Engineering

Aug 2012 – July 2016

CGPA 9.690/10.0

Coursework: Operating Systems, Algorithms, Computer Networks, Database Management Systems

TECHNICAL SKILLS

Programming Languages : C++, C, Python, Scala, JAVA, Bash, Prolog, LISP, PHP

Web Technologies : SAPUI5, AngularJS, Ruby on Rails, HTML5, CSS, jQuery, Javascript, Sass

Databases and Frameworks : Apache Spark, MySQL, SQLite, Oracle 11g

EXPERIENCE

SAP Web Developer Intern, Adobe

Jun 2017 – Sep 2017

- Developed the front-end of ARMLite, an internal application for access request management used by the SAP Security Team using SAPUI5 framework, SAP-HANA and SAP-GRC
- Reduced resource time by 90%, enhanced user-experience and improved compliance through auto-documentation, auto-validation and transparency

Teaching Assistant for Fundamentals of Artificial Intelligence, UCLA

Jan 2017 – Jun 2017

- Conducting discussion sessions, grading assignments and evaluating projects in LISP for a class of 50 undergraduate students in Artificial Intelligence

Web Developer and Designer, Tata Consultancy Services, Chennai

May 2015 - June 2015

- Redesigned the 'Campus Commune' portal, the largest student engagement portal of Tata Consultancy Services and an interactive Coding Portal for new recruits using HTML5 and Javascript; changed the information architecture of both portals using Ruby on Rails
- Campus Commune and the TCS Quiz Portals are live with a user base of over 90,000 students

Student Director, Web and Tech Team, CEG Tech Forum, Chennai

July 2015 - July 2016

- Developed web and mobile applications for international symposium, 'Kurukshetra', developed the UI/UX using
- AngularJS, Javascript, HTML5, Less, CSS3 (<http://archive16.kurukshetra.org.in>)
- Used AWS, Ruby on Rails, PHP, Bootstrap and Git for data management and storage
- Trained and conducted technical workshops for undergraduates in Web and Android Development

ACADEMIC PROJECTS

Priority-based Preemption of Pods in Kubernetes

Apr 2017 - Jun 2017

- Developed a comprehensive model for priority-based pod preemption in Kubernetes cluster by incorporating new features including pod-priority and pod-eviction-cost for enhanced user-control and customization of pod eviction
- The features were added to the Kubernetes codebase and tested for correctness (locally)

Study and interpretation of community structures in social networks using R and Python

Apr 2017 - Jun 2017

- Explored community structures in personal "friendship" networks in social networks including Google Plus and Facebook graph datasets
- Analyzed real stock-market data, evaluated cluster sectoring and developed a generative model for vine cluster graphs

Data Analysis using Apache Spark

Sep 2016 - Dec 2016

- Developed a map-reduce system that analyzed Federal Election Commission Data in the 2016 election campaign
- Built a spark-streaming application that ran map-reduce on live data-streams from Netcat server
- Implemented Hash-based, Hybrid-hashing aggregation and Average Aggregate techniques in Apache Spark

Bruinbase - IMDB Movie Database architecture using MySQL and B+Tree Indexing

Aug 2015 - Oct 2015

- Developed an interactive movie database web application using PHP, MySQL, HTML, CSS, Javascript
- Implemented B+Tree Indexing to optimize search (<https://github.com/shriyaEsha/CS143>)

Aerial Eyes – Quadcopter implementing 3D Object Reconstruction

Dec 2015 - Feb 2016

- Built a quadcopter from scratch on Raspberry Pi 2 microprocessor that performed aerial photogrammetry
- Implemented panorama stitching and 3D Model reconstruction and rendered on an interactive web-app

- The project was developed using Python, OpenCV, Android Programming and ThreeJS

Recommendation System using Collaborative-Filtering (Personal Project)

July 2016

- Developed a movie recommender using Collaborative-Filtering Algorithm using Python's scikit-learn, pandas, nltk and matplotlib libraries (<https://github.com/shriyaEsha/MovieRecommender>)

Twitter Sentiment Analysis of Products and Brands

Aug 2015 - Oct 2015

- Developed a web application using Python and Twitter API using Machine Learning (Naive Bayes) for Sentiment Analysis of tweets in real-time with automatic classification and pictorial-rendering (<https://github.com/shriyaEsha/WEBPY>)

CERTIFICATIONS

Certification in Python Game Development, Rice University, Coursera