

# JASHWANTH Reddy Madem

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## EDUCATION

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MAY 2017 MS, Computer Science  
**University of Southern California**, Los Angeles GPA: 3.85  
MAY 2014 BTech, Computer Science  
**P. E. S. Institute of Technology**, Bangalore, India GPA: 4.00

## WORK EXPERIENCE

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JAN '17 - CURRENT | Data Science Intern, **Scry Analytics**, San Jose  
Working on a python based tool - to create a loan recommender system. Built data pipelines to fetch SMB's transactional data. Working on various recommendation algorithms based on their features using several Statistical and Machine Learning techniques.  
Tech stack | **Python, Machine Learning, Hive, TensorFlow.**

MAY '16 - AUG '16 | Summer Intern, **Citrix [LogMeIn]**, Santa Barbara  
Worked on the Platform team to develop a consistent and reliable RTC-SDK fixture platform for the deployment of the RTC-SDK service. The platform was developed for both mac and windows. Created a cross platform app for audio, video chat and screen-share functionality using RTC-SDK.  
Tech stack | **C++, Python, Java, CMake, QT.**

JAN '14 - AUG '15 | Software Engineer, **Cisco Systems**, Bangalore  
Built a fast, reliable virtual router from scratch, which could scale to 100 million sessions. Designed a framework to XMLize router commands and data store optimization in NX-OS. Built a log analytics framework for various networking device logs on a live system.  
Tech stack | **Python, ProtoBuf, C++, Spark, MongoDB.**

JUN '12 - SEP '12 | Contract Developer, **Google Summer of Code**  
Contributed to **parrot.org** by providing LAPACK bindings for a Linear Algebra library of Parrot. One among the 1212 students from 69 countries who were accepted for GSoC 2012.  
Tech stack | **C, LAPACK.**

## RELEVANT PROJECTS

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- **BigBrother - Recommendation System | Python, Collaborative Filtering, ML, XGBoost**  
Developed a model which recommends responsive experts on a particular topic using ensemble collaborative filtering. Various other algorithms were explored in the process. Training data was question-expert answer mapping, word tags used in the question and topics describing the expert's interests. Similarity was measured between questions using the tf-idf, wordtovec of the tags as features. Was featured in the top 20 of the Byte Cup 2016 challenge.
- **Smart Personal Assistant (SPA) | Python, C++, Android, Java**  
SPA is an assistant bot, which assists users in scheduling daily routine, automatic tracking of events, detection of important messages and smart alarms system which automatically sets alarms with adaptive correction and prediction of users' sleep pattern. Gathered phone sensors data like gyroscope etc. and used it in a logistic regression model to predict the asleep/awake state of user.
- **Enhancing 0 A.D. Gameplay AI | Python, C++, JavaScript**  
Helped enhance the crisis situation decision making of an Aegis AI bot by changing the bot's planning algorithm upon detection of a situation. Situations can be detected by the bot's performance e.g. when there is a deadlock for resources vs production of new units. Depending on the situation we designed some plans which the bot can execute to help it recover from the situation.
- **Pai-deia | [jashwanth.in/Paideia](https://jashwanth.in/Paideia) | Java, C++, Android, Deep Learning**  
This is a Deep Learning based android app that uses Tensorflow and detects objects around you through camera and maps it into one of the classes in Imagenet and then pulls more information about what the user is seeing from Wikipedia and Wolfram Alpha. The results are also tweaked based on a learning model that monitors user's activity and shows more relevant content over time.

## TECHNICAL SKILLS

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Languages: Python, C/C++, Java, JavaScript

Others: Android, Spark, MySQL, Hive, Pig, Weka, UNIX, Machine learning, Scikit-learn, NumPy, Pandas

## ACHIEVEMENTS

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- Won CalTech's HackTech for Pai-deia.
- Won Visa Data Science Hackathon for credit card fraud analysis and visualization.