

ADITHYA BANDI

SOFTWARE ENGINEERING

CONTACT

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PROFILE

Software Engineer with 3+ years industry experience in building highly scalable products on cloud and academic research experience in Grounded Language Acquisition and Natural Language Processing with an appetite for learning and hunger for problem solving.

EDUCATION

2018
UNIVERSITY OF MARYLAND [BALTIMORE COUNTY]
Master of Computer Science [4.0]

2014
NATIONAL INSTITUTE OF TECHNOLOGY [WARANGAL, IND]
Bachelor of Technology in Computer Science and Engineering

TECHNICAL SKILLS

- Java, J2EE, Python, SQL
- Cloud Computing (AWS)
- Redis, MongoDB
- etcd, confd, monit
- Message Queues (Kafka)
- Version Control (Github)
- Docker, Spark, Hive
- Machine Learning
- Numpy, Pandas
- Scikit-Learn, Tensorflow, Keras
- Natural Language Processing
- NLTK, Gensim
- Matplotlib, ggplot

EXPERIENCE

2018 – PRESENT

Research Assistant | Interactive Robotics and Language Lab

- Developed a novel algorithm, which uses **Mallet** implementation of **Latent Dirichlet Allocation** Topic Modelling to obtain **semantic analysis** of entities and then applies **SVM Classifier Scikit-Learn** implementation to automatically extract most optimal negative samples from positive unlabeled dataset which lead to about **9%** increase in performance of downstream classification task helping **Robots** learn **Grounded Language**, connecting words, phrases and sentences to its perception of objects and events in the world. The corresponding tests were done on **Grid** using request level parallelism.
- Worked closely with **Baltimore City Officials** to implement a Sequence to Sequence **Recurrent Neural Network** using **TensorFlow** library for the prediction of the frequency of service requests (for instance street lights out) every month with an objective to optimize **Budget Allocation** and **Resource Utilization** resulting in a model with a mean absolute percentage error of **10%**.

2016–2018

Software Engineer (R&D) | Amagi Media Labs

- Designed and developed Distributed Real Time component deployed on **AWS EC2, Lambda, S3 and CloudFront** which solved a crucial business problem of **economic viability** of product through use of **hybrid** (server & server-less) architecture leading to **first million impressions** for a product named **Thunderstorm**, an OTT Dynamic Ad insertion platform on the cloud.
- Designed and developed a complete **server-less** component deployed on **AWS S3, Lambda, API Gateway** using company **patented technology** to extract and update Ad signatures in real time thereby increasing the **revenue** by an estimated **10%**.
- Played a major role in acquiring the first **high profile customer** by acting as an interface between the Customer and the product team along with **onsite** involvement which lead to the **first revenue**.

2014–2016

Member of Technical Staff | Oracle India Pvt. Ltd.

- Fixed issues related to scheduling component of **Business Intelligence Publisher** deployed both on premise and cloud where I was able to swiftly find root cause through debugging and exploring complex code.
- Developed **chef cookbooks** for deployment automation on behalf of the team coordinating with teams across the Globe who deploy their product as a part of **Oracle Business Intelligence Cloud Services (BICS)**, which is currently one of the prominent BI offerings in the market.