Rajashekar Reddy Aluka

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EDUCATION

Arizona State University (ASU), Tempe, Arizona *Expected Dec 2021*
- Masters in Computer Science, GPA : 4.22/4
  Coursework: Cloud computing, Data processing at scale, NLP, Data mining*, Data visualization*, Algorithms*

International Institute of Information Technology (IIIT), Hyderabad *Jul 2013 - May 2017*
- B.Tech in Computer Science and Engineering, CGPA : 7.28/10

TECHNICAL SKILLS

Languages: C++, Python, C, JavaScript, Java, PHP
Tools & Frameworks: Flask, Django, Celery, NodeJS, ReactJS, VueJS, Elastic Search, PostgreSQl, MySQL, SkLearn, Tensorflow, pyTorch, AWS EC2, Google App engine, Google Compute Engine, Google pub-sub

PROFESSIONAL EXPERIENCE

ASU Decision Theater Network *Mar'20 - present*
Software Developer
- Pulse: Developed a robust and scalable distributed computing architecture for collecting live tweets from twitter.Technologies used are: Python, Flask, Celery, RabbitMQ, Elastic Search, PostgreSQL.

Bully Blocker *May'20 - Aug'20*
Graduate Research Assistant under Dr. Yasin N. Silva, School of Mathematical and Natural Sciences
- Developed an action point application in IOS with backend API server code in PHP and database in MYSQL which is hosted on AWS EC2.

Qualcomm Inc *Jun'17 - Jan'20*
Software Engineer
- Developed a machine learning model for the regression problem to predict the performance metrics of a chipset.This model predicted performance metrics with an accuracy of 95%.
- Worked with RD San Diego team on 5G timelines data to process the large chunks of data using distributed processing to a human-readable format. To show the data insights, I developed a dashboard in Django (python) with backend using PostgreSQL database.

IIIT Hyderabad *Aug'16 - Nov'16*
Head Teaching Assistant, Under Prof. Kamalakar Karlapalem, Centre for Data Engineering
- Worked as a head teaching assistant for Intro to databases course for a class of 230 strength in helping prof by conducting tutorials, designing assignments, evaluating their assignments and exams.

Progress Software *May'16 - Jul'16*
Data SQL Development Intern
- Debugged around 7000 lines of C++ code to implement an interface provider which interacts with open access SQL engine to query the data from different file formats.

Wazzat Labs *Sep'15 - Oct'15*
Software Developer Intern
- Developed a Fashion Visual Recognition API Demo to show the startup's idea of how e-commerce products can be searched by giving image as an input. A demo image of the same : `https://goo.gl/nBRd3J`.

Justkapture *Jun'15 - Jul'15*
Software Developer Intern
- Developed an admin interface which shows weekly/monthly stats of the campaign of Justkapture Advertisers.Optimized the response loading time of website from 40 secs to 2 secs by using AJAX calls.

ACADEMIC PROJECTS

- **Smart Bill savings:** Developed a PAAS website in flask to store the receipts and create grocery list based on the data extracted from an image using google OCR. **GitHub Link**
- **Edge Computing:** Developed a system which can auto scale the resources based on the number of requests and reduce the cost of using AWS resources. **GitHub Link**
- **Pythia:** Enhanced the visual question answering, LORRA model by adding instance segmentation, N-gram and spell correcting OCR leading to an increase in model accuracy by 3%.
- **Wikipedia Search Engine:** Given a wiki dump of 42GB, this project retrieves the top 5 documents corresponding to the given query. The first is to create an index file and use TF/IDF-based heuristics to rank relevant wiki pages.