Rajashekar Aluka

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Education

Arizona State University, Tempe, Arizona *Expected Dec 2021*
- Masters in Computer Science, GPA : 4.0/4
  Coursework: Cloud computing, Data processing at scale, Natural Language Processing, Data mining, Data visualization, Algorithms, Statistical Machine Learning, Semantic web mining, Mobile Computing*

International Institute of Information Technology, Hyderabad, India *Jul 2013 - May 2017*
- Bachelors in Computer Science and Engineering

Technical Skills

Languages: C++, Python, C, Java, JavaScript, PHP, Swift
Frameworks: Flask, Django, Fast API, CodeIgniter, Web2py, Celery, SKlearn, Keras,PyTorch, Vue.js, Reactjs, Nodejs
Databases & Applications: PostgreSQL, MYSQL, MongoDB, Elastic Search, Apache Pulsar, Apache Kafka, Apache Zookeeper, Redis, GraphDB, RabbitMQ
Cloud & Deployment : AWS, Google Cloud, Azure, Docker, Kubernetes, HelmCharts

Professional Experience

ASU Cognitive Information Processing Systems Lab *Aug'20 - Present*
*Graduate Research Assistant under professors **Hasan Davulcu, Steven Corman, & Scott Ruston***
- Working on Office of Naval Research(ONR) project a NSF Funded project for developing tools and machine learning models for detecting and tracking events in adversarial mainstream and social media.
- **Technologies used are:** Python, Flask, PostgreSQL, Sklearn, PyTorch, PHP, Matlab

Nutanix Inc *May'21 - Aug'21*
Member of Technical Staff Intern
- Designed and implemented a high available streaming service using Raft distributed consensus algorithm for collecting the streaming events to serve different web applications and provide input data to do data analysis.
- **Technologies used are:** Python, Bottle web Framework, Kubernetes, Docker, Helmcharts, Nutanix Karbon Cluster, Apache Pulsar, Apache Zookeeper, MongoDB

ASU Decision Theater Network *Mar'20 - Aug'20*
Software Developer
- Pulse a web application for various clients: Designed and implemented a robust and scalable distributed computing service for collecting live tweets from twitter to showcase different tweet analysis.
- **Technologies used are:** Python-Flask, Javascript, Reactjs, PostgreSQL,Celery, RabbitMQ, Sklearn, Keras, Elastic Search, RabbitMQ, Docker

ASU School of Mathematical and Natural Sciences *May'20 - Aug'20*
*Graduate Research Assistant under **Dr. Yasin N. Silva***
- Developed an action point IOS application for the **Bully Blocker**, a NSF funded project to make agreements between parents and their children to track social media cyber bullying.**Technologies used are**: php,mysql,swift.

Qualcomm Inc *Jun'17 - Jan'20*
Software Engineer
- Developed a machine learning regression model to predict the performance metrics i.e. CPP of a chipset with an accuracy of 96%. **Technologies used are:** Python, SKlearn, Keras, Perl.
- Developed a dashboard to track builds health using the 5G timelines data by extracting the data from large non human readable files using the distributed processing.**Technologies used are:** Python-Django, PostgreSQL, Elastic Search, Celery, Redis.

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**
- **Wikipedia Search Engine:** Given a wiki dump of 42GB, this project retrieves the top 5 documents corresponding to the given query.
- **File sharing Protocol:** Developed a file transfer protocol via TCP/UDP using C/C++ to download and files.