

RAJASHEKAR REDDY ALUKA

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EDUCATION

Arizona State University, Tempe, Arizona

Jan 2020 - 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: Python, go, C++, C, Java, JavaScript, PHP, Swift

Frameworks: FastAPI, Flask, Django, Celery, SKlearn, Keras, PyTorch, Reactjs, Vue.js, Nodejs

Databases & Tools: PostgreSQL, MYSQL, MongoDB, Elastic Search, Apache Pulsar, Apache Airflow, Apache Kafka, Apache Zookeeper, Redis, GraphDB, RabbitMQ

Cloud & Deployment : AWS, Google Cloud, Azure, Docker, Kubernetes, HelmCharts

PROFESSIONAL EXPERIENCE

Nutanix Inc

Member of Technical Staff - 3

Feb'22 - Present

- Migrated the backend of the test case management system from Django to FastAPI, resulting in a significant 30% improvement in performance. This system is utilized by over 2000 developers and Engineering leaders daily to track their test performance of Nutanix products.
- Implemented various features and maintained build and test orchestration systems used by over 2000 developers.
- I led the team in conceptualizing, designing, and developing a knowledge bot using Llama and Rasa for the annual Nutanix Hackathon 2023, where our team was one of the winners.
- Participated in buddy program to support and help the interns.

Member of Technical Staff Intern

May'21 - Aug'21

- Deployed the highly available streaming service Apache Pulsar to production using Kubernetes, enabling multiple micro-services to leverage its capabilities. Also designed and implemented a highly available service to produce and consume events using a raft to Apache Pulsar.
- **Technologies used are:** Python, go, FastAPI, Django, Bottle, Reactjs, Kubernetes, Docker, Helmcharts, Nutanix Karbon Cluster, Apache Pulsar, Apache Zookeeper, MongoDB.

ASU Cognitive Information Processing Systems Lab

Aug'20 - Dec'21

Graduate Research Assistant under professors *Hasan Davulcu, Steven Corman, & Scott Ruston*

- Working on Office of Naval Research(ONR) project an NSF-funded project for developing tools and machine learning models (NLP) for detecting and tracking events in adversarial mainstream and social media.
- **Technologies used are:** Python, Flask, PostgreSQL, Sklearn, PyTorch, Bert, PHP, Matlab.

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 analyses.
- **Technologies used are:** Python-Flask, Javascript, Reactjs, PostgreSQL, Celery, RabbitMQ, Sklearn, Keras, Elastic Search, RabbitMQ, Docker.

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.