Rishab Katta

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Professional Summary:

Graduate student with 3+ years of experience in the areas of software development, distributed systems, data analysis, business intelligence & with research experience in Deep Learning, seeking a full-time position starting May 2021.

Education:

Rochester Institute of Technology, Rochester, NY, USA   **05/2021**
Master of Science in Computer Science. GPA: 3.83

Osmania University, Hyderabad, India   **05/2016**
Bachelor of Engineering in Computer Engineering. GPA: 3.92

Skills:

Languages: Java, Python, C++, JavaScript, Bash, SQL(PostgreSQL), NoSQL (MongoDB, Neo4j), HTML, CSS.
Frameworks & Tools: AWS, GCP, Spring, Hibernate, Node.js, Elasticsearch, Kibana, Spark, Kafka, Docker, Kubernetes.
Libraries: React and Redux, Pandas, NumPy, SciPy, Scikit-Learn, Keras, TensorFlow, NLTK, OpenCV.
Platforms: Linux(primarily), Unix-based, Windows.

Work Experience:

Software Engineering Intern   **09/2020 – Present**
Nokia Bell Labs, Remote
- Development of reusable security-related components for use across the Nokia Software product portfolio.

Graduate Student Researcher   **04/2020 – 08/2020**
SpiRIT Lab, RIT, Rochester, NY
- Research on Homomorphic Encryption and SparkFHE Platform. Incorporating Homomorphic Encryption into a highly efficient data analytics platform to support secure data analytics and machine learning on encrypted data in the cloud.

Software Engineering Intern   **08/2019 – 01/2020**
Aeris Communications Inc, San Jose, CA
- Ava is an intelligent assistant which understands natural language and responds to text and voice commands.
- Ava helps Aeris customers to request information about their IoT devices, and perform troubleshooting in an efficient and streamlined fashion. It uses Role-Based Access, where each user can only access devices under his control.
- I designed, built and deployed the Aeris Virtual Assistant (AVA) all by myself with the help of my mentor. Tech stack used includes JavaScript, Node.js, NLP, Dialogflow, React, Hapi, SQL, Docker for containerization, Google Cloud.
- The second project is a research project. The research is on FOTA (Firmware Over-the-Air) Transfer over LTE-M Network for IoT devices. I wrote a paper based on our conclusions from the project and submitted to Elsevier Journal.

Software Engineer   **06/2016 - 06/2018**
Infosys Limited, Bangalore, India
- Worked on a Java-based web application (Spring MVC) for managing check payments. Built a service that matches and balances account data, checking for errors & possible fraud, and a service that generates reconciled statements.
- Developed a service for Data Masking to encrypt/hide sensitive production data for the client, a US-Based Bank.
- Automated Report generation about flow and timings of batch execution of jobs, saving 50 man-hours of work/week.
- Experience with API designs, database integration, building CI/CD Pipelines, code reviews, working with XML/SOAP.

Projects:

Kademlia - Distributed Hash Table | *Java, Remote Procedure Call, Multi-threading, TCP, UDP, Docker*
- Built a decentralized peer-to-peer file sharing Kademlia network that can be scalable up to 256 nodes
- Deployed the system using docker and docker compose that fires up both clients and nodes

Diabetic Retinopathy Detection | *Python, Tensorflow, Keras, Scikit-learn, OpenCV*
- Created an automated grading system for Diabetic Retinopathy using Inceptionv3 CNN Architecture.
- Experimented with image processing techniques like CLAHE. AUC achieved: 0.83

Data Warehousing on IMDb Data | *Python, PostgreSQL, MongoDB, ETL, Weka, Spark*
- Extracted, Transformed & Loaded entire IMDB dataset into MongoDB and PostgreSQL databases
- Analyzed data through querying & mining algorithms like k-means, itemset mining to visualize useful insights

Yelpcamp | *JavaScript, Node.js, Express, MongoDB and REST API*
- Developed Yelpcamp which is a campground sharing web app with features like Register/Login, adding friends, sharing campgrounds, posting reviews, liking posts. Yelpcamp has a Beautiful Material Design UI.

Certifications:

- AWS Certified Solutions Architect Associate.
- Machine Learning and Deep Learning by Kirill Eremenko. (Udemy)