

Rajath Chikkatur Srinivasa

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SKILLS

Programming languages:	Python and Java with Data Structures and Algorithms
Databases:	PostgreSQL, MySQL
CI-CD Tools:	Jenkins, Cron, Docker
Data Visualization:	Tableau
Big Data Tools and Platforms:	Hadoop and PySpark
Productivity Tools:	Confluence, Jira, Git

PROFESSIONAL and ACADEMIC EXPERIENCE

Georgia State University (Atlanta, GA)

Graduate Research Assistant (Panacea Lab)

Aug 2020 – Present

- Built a **python library**, by applying **NLP** techniques like NER, to understand temporal textual data and performed sentiment analysis and visualization of tweets. Currently working on identifying mobility patterns using Twitter data.
- Part of **JournalClub** where each member studies a research paper in the field of NLP and presents it to others on a fortnightly basis.

Graduate Teaching Assistant (Software Engineering)

Jan 2021 – Present

- Collaborate with faculty to monitor the assignments/project timeline. Assisting in the preparation of lecture materials. Holding office hours. Writing solutions to problem sets and exams, grading problem sets and exams; returning graded problem sets and exams in a timely manner.

Informatics India Limited (Bangalore, India)

July 2020 – Dec 2020

Product Developer

- Specialized in real-time data ingestion, processing and analytics, using **Pyspark and Azure Databricks**, catering to data preparation for content harvesting and indexing on the Enterprise Data Lake Hadoop environment.
- Built automated web scrapers, using **BeautifulSoup and PyPDF2**, to extract online thesis records. Built end to end content harvesting python bots and scheduled it using **Apache Airflow** for preprints data extraction.
- Extensively utilized Linux JQ command line for processing large scale JSON data and automated the streaming process to database.
- Worked on **Google Big Query** to perform statistical analysis of Google Patents records.
- Initiated the task of structuring a framework for enterprise-wide data-cleaning application. Spearheaded the process of building automated text classification for over 70 million research articles using MESH and LCSH thesaurus.

KPMG Global Services (Bangalore, India)

Jun 2018–Jun 2020

Analyst

- Extensive use of pandas for data transformation and data formatting, automating data processing through VBA, PowerShell scripts.
- Relied on PostgreSQL database systems using SQL as the programming language for various data aggregation and ETL tasks.
- Worked on cloud infrastructure on AWS using multiple services like EC2, S3, API Gateway, CloudFront, AWS Lambda, RDS.. etc,
- Assisted IT SOX testing team in their daily risk management process through technical documentation of the risk management processes. Used tools like JIRA, Splunk and Github.
- Worked on cyber security project to identify and analyze enterprise Data Leak and build system to prevent the same.
- Debugged 14, 000 lines of **PL/SQL** codebase.

Cell Propulsion (Bangalore, India)

Jun 2018 – Dec 2018

Software Engineering Intern

- Designed and developed the first version of company's website by leveraging HTML, CSS, Bootstrap and Wordpress for front end and **Django** for backend. [<http://www.cellpropulsion.com/>]
- Assisted in the development of a machine learning model to process LIDAR data in the autonomous driving system's on-board computer. Leveraged python and shell scripting for building custom YOCTO packages that integrates the ML models.

Projects, Publications and Courses

- FiDooop: Parallel Mining of Frequent Itemsets Using MapReduce
- Created a web application that processes large scale retail data and showcased the efficient method for data processing and data mining by Implementation of FP-Growth and FIUT association mining algorithms. Utilized various tools like Eclipse, SQLyog, cygwin and Hadoop environment to perform automatic parallelization, load balancing and fault tolerance of the data-set operation on a multi node-cluster.
- Detection and Recognition of Hypertexts in Imagery using Text Recognition Technique (published in IJRET)
- Text Analytics and Prediction with Python – LinkedIn Learning Course

EDUCATION

Georgia State University

Master of Science in Computer Science

Atlanta, GA, USA

Aug 2020 - Present

Don Bosco Institute of Technology

Bachelor of Engineering in Information Science and Engineering

Bangalore, India

Aug 2014 - Jun 2018