JAYA AMIT SAI GURRALA

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EDUCATION

New York University — **New York City, USA**
Master of Science in Computer Science; GPA: 3.82/4.0 — *Sep 2021 - May 2023*
Coursework: Cloud Computing and Big Data, Algorithms, Machine Learning, Artificial Intelligence, Operating Systems

National Institute of Technology — **Andhra Pradesh, India**
Bachelors in Computer Science and Engineering (Hons.); GPA: 3.97/4.0 — *Aug 2016 - Jun 2020*
Coursework: Database Management, Networks, Distributed Systems, Software Engineering, Object Oriented Programming

TECHNICAL SKILLS

Languages: Java, Python, C, C++, PHP, JavaScript, HTML5, CSS, SQL, NoSQL, XML
Frameworks: Node.js , TensorFlow, Keras, Google Cloud Platform (GCP), PyTorch, React, JSON, REST, Android Studio
Tools / Database: AWS (S3, EC2, SQS, Lambda), PostgreSQL, Github, MongoDB, MySQL, Jenkins, Jira, RTC,Splunk, Matlab

EXPERIENCE

IPC Systems — **Fairfield, USA**
Software Delivery Optimization Intern — *Jun 2022 - Aug 2022*
- Prioritized testing for efficient switch from onsite to cloud environment accomplishing 30% reduction in cost
- Spearheaded project implementation of RTC business rules for JIRA, BitBucket , Zephyr, Jenkins, Splunk, Maven leading to 80% improvement in user experience
- Conceptualized with DevOps Team to implement integration of efficient management of software development life cycle

New York University — **New York City, USA**
Teaching Assistant — *Jan 2022 - Present*
- Facilitated tracking and monitoring goals for the progress of a cohort of 90 students and advised office hours
- Examined topics such as Schedulers, Memory Management, File Systems and syllabus code debugging/assignments leading to increase of average GPA by 25%

Bharat Dynamics Limited — **Hyderabad, India**
Project Student Intern — *Jun 2019 - Jul 2019*
- Deployed an e-commerce medical application for BDL Hospital using Flutter by achieving an accuracy of 82% for the model
- Conceptualized on "Inventory Forecasting and Supply Chain Management" and built a recommendation system to recommend medicines leading to an increase click rate by 20%
- Consolidated the data used for forecasting algorithms (LSTM) leading to increased efficiency throughout the inventory

Pravahya Consulting Private Limited — **Bengaluru, India**
Software Development Engineer Intern — *May 2018 - Jul 2018*
- Designed news portal website Telugu Rajyam utilizing Node.js increasing website search result by 50%
- Diagnosed, refactored and troubleshooted user interface of website improving extendibility to audience

SELECTED PROJECTS

Dining Concierge Chatbot (Link) **| Java, React, HTML5, CSS, YAML** — *Feb 2022 - Mar 2022*
- Implemented a restaurant recommendation chatbot by using 7000+ restaurant data across different cuisines using Yelp API
- Analyzed and developed serverless and microservice driven web application to improve customer outreach by 95%
- Deployed the chatbot website on AWS S3 bucket, and utilized REST service interface, API Gateway with Swagger, DynamoDB, Lambda, Elasticsearch achieving scalability and efficiency of 80%

Recipe Book (Link) **| Python, Pandas, Grid Search CV, Tableau** — *Nov 2021 - Dec 2021*
- Created a prototype using ML algorithms to classify new tags for non existent recipes resulting in accuracy of 99.2%
- Expedited optimization and analysis of different ML algorithms thereby achieving 95% performance
- Enhanced features of the dataset resulting in 85% customer user experience by integrating the system with tableau dashboard

Mini Linux Shell and Disk Performance (Link) **| Python, C** — *Nov 2021 - Dec 2021*
- Streamlined and executed functionality and scalability for system terminal therefore improving user workflow by 85%
- Devised a framework for I/O disk operations that augmented process execution and improve computation speed by 90%

RESEARCH WORK

Private Tag Recommendation System | Python, Pandas, NumPy, SciPy — *May 2018 – Jul 2018*
- Spearheaded a randomized noise differential privacy scheme for topic models using parallel computation
- Evaluated the model performance against Rényi Differential Scheme, Strong Composition scheme [KOV15] over Gaussian and Laplace noise