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,C#, R
Frameworks: Node.js , TensorFlow, XML, GCP, Selenium, OpenAI, .NET, PyTorch, React, JSON, REST, Docker, Kubernetes
Tools / Database: AWS(S3, EC2, SQS, Lambda), PostgreSQL, Git, MongoDB, Spark, Jenkins, Jira, Spring, Splunk, Azure, Kafka

EXPERIENCE

IPC Systems — **Fairfield, USA**
Software Delivery Optimization Intern — *Jun 2022 - Aug 2022*
- Prioritized and optimized 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
- Collaborated with the DevOps Team to devise and implement an integration strategy for efficient management of SDLC

New York University — **New York City, USA**
Teaching Assistant — *Jan 2022 - May 2023*
- 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*
- Executed 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

SELECTED PROJECTS

FoodGPT (Link) | **React, CSS, OpenAI LLM** — *Nov 2023 - Dec 2023*
- Developed a frontend interface utilizing Large Language Models (LLMs) to generate diverse cuisine recipes
- Implemented a robust data flow architecture integrating GPT-4 Vision, GPT-4 Turbo and DALL-E LLMs backend systems, and reduced API communication latency by 20%

University Management System (Link) | **Python, Django, PostgreSQL** — *Oct 2022 - Dec 2022*
- Rolled out UMS features to streamline operations, resulting in an 85% improvement in user workflow efficiency
- Modeled the data for University Management System and installed the database on PostgreSQL
- Implemented a web based portal for UMS using python libraries streamlit and psycopg2 and connected it to PostgreSQL

Bon Appetit (Link) | **Python, AWS, Pytorch, React, YAML** — *Feb 2022 - May 2022*
- Developed a react application hosted on Amplify which recommends recipes to users based on items present in pantry
- Integrated AWS Cognito for user Authentication, AWS SageMaker to train model with recipe data and recommend recipes, Lambda functions to get recipes and ingredients, DynamoDB to store user's data, Open Search to create indexes of recipes
- Attained scalability with Kafka and notified about expiring ingredients with recipes thereby improve user interaction by 70%

Dining Concierge Chatbot (Link) | **Spring, JavaScript, JUnit, 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 leveraged REST interface, API Gateway with Swagger, DynamoDB, Lambda, Elasticsearch, SQS and Postman to streamline testing thereby achieving scalability of 80%

Weather Forecasting Application (Link) | **Java, Spring, Maven** — *Nov 2021 - Dec 2021*
- Extended functionality and scalability of application which predicts weather for 1 week and improving user workflow by 70%
- Utilized Spring, Maven dependencies, REST API principles and extracted JSON data storing in JDBC