Kirity Ganga

+1 602-625-1077 | ikirityganga.com | gangakirity@gmail.com | github.com/Kirity12

SKILLS

Programming Languages/Software: Java, Python, Golang, C++, SQL(MySQL), Javascript
Frameworks/Libraries: FastAPI, Pytest, Tensorflow, Keras, Flask, Hadoop, Spark, React-Redux, Angular
Datastores, and Orchestration: Docker, MySQL, Postgres, MongoDB, Kinesis, MSK, Kubernetes
Cloud Technologies: AWS (S3, Lambda, Athena, Kinesis, IAM, SQS, SNS, Quicksight), GCP (OAuth2, Analytics), Git

PROFESSIONAL EXPERIENCE

Medynsky and Associates | Tempe, Arizona, US: Full Stack Developer   **Jan 2023 - Present**
- Implemented secure user authentication systems utilizing Google tools within Express backend and React frontend, ensuring strong protection for user accounts and sensitive data.
- Worked on developing CRUD applications using MERN stack and REST-based API.
- Integrated the Google Analytics API to collect and analyze user interaction data, implementing custom tracking events to capture specific user actions within the application.
- Ensured real-time updates of key metrics, allowing users to monitor user engagement and behavior instantly.
- Integrated AWS services like S3, DynamoDB, RDS, SQS, SNS, and Kinesis with Python applications.
- Implemented CI/CD pipelines using Gitlab, CodeBuild, and CodeDeploy for automated deployment.
- Managed code versioning with GitHub, Bit Bucket, and deployment to staging and production servers and implemented MVC architecture in developing the web application with the help of Express JS framework.
- Develop remote integration with third-party platforms by using RESTful web services and Successful implementation of Apache Spark and Spark Streaming applications for large-scale data.
- Utilized MongoDB as the backend database and implemented data aggregation pipelines to generate performance reports.

Raven Industries | Scottsdale, Arizona, US: Software Engineer   **May 2022 - Dec 2022**
- Developed two microservices architectures to generate false positive reports and log verification reports for a given vehicle.
- Design, Develop, and test ETL Processes in Glue to migrate Campaign data from sources like S3, ORC/Parquet/Text Files into Redshift.
- Created data pipelines and automated report generation using Lambda, Athena, and Quicksight, streamlining operations for efficient data processing.
- Modeled a full-stack service-oriented log processing service that communicates with AWS SQS and writes data to S3.
- Utilized Airflow for ELT orchestration, managing and scheduling complex data workflows effectively, and created a Pyspark frame to bring data from DB2 to Amazon S3.
- Containerized the applications and deployed them to the cloud creating an ECR instance (acted as base image for Lambda).
- Installed Hadoop, Map Reduce, HDFS, and AWS and developed multiple MapReduce jobs in PIG and Hive for data cleaning and pre-processing.
- Used IntelliJ for code deployments, worked with the various agile development teams to standardize branching and tagging of code in our repository, and maintained code base integrity using Subversion (SVN), Git, and Bitbucket.
- Deployment of containers was done using CI/CD workflow to prioritize efficient and automated deployment processes, **reducing deployment timing by 25%** (manual to automation) and increasing deployment frequency by 10%.

Bitsilica | Austin, Texas, US: Software Engineer   **Jan 2020 - July 2021**
- Programmed and debugged a Road Lane Line detection system using the Hough Line Transform method to create an accurate and reliable lane detection system, achieving an accuracy of 75%.
- Designed and integrated a face recognition model that detects faces from distorted videos using FaceNet.
- Scraping website using Python Beautiful Soup, and then parsed it with XML.
- Employed custom REST API using Django web applications architecture and executed the model on a Linux cloud platform, prioritizing efficient deployment and development processes.
- Developed views and templates with Django view controller and template Language to create a user-friendly website interface.
- Use Celery as a task queue and RabbitMQ, and Redis as a messaging broker to execute asynchronous tasks.
- Developed a module to build ORM queries that can pre-load data to greatly reduce the number of database queries needed to retrieve the same amount of data.
- Promoted Agile collaboration and mentored junior developers, fostering a knowledge-sharing culture.

Bitsilica | Austin, Texas, US: Research Engineer Intern   **Sept 2019 - Dec 2019**
- Architected a scalable and decoupled system leveraging AWS services for ingesting, processing, and storing streaming data, ensuring flexibility and fault tolerance.
- Implemented Kinesis Data Stream that captures incoming data, Lambda functions to process it asynchronously, SQS acts as a decoupling mechanism, and DynamoDB stores the processed data, showcasing efficient resource utilization.

PROJECTS

REAL-TIME BALL TRACKING WITH WEBRTC | WebRTC, Python, Multiprocessing   **Jan 2023 - Mar 2023**
- Implemented real-time communication using WebRTC, establishing low-latency connection between the server and client.
- Utilized computer vision techniques, including the Hough Circle Transform, to detect and continuously track the moving ball.
- Developed an interactive client-side application that visually overlays real-time ball coordinates on the video feed.
- Employed a multi-process architecture to ensure uninterrupted ball tracking alongside WebRTC communication, optimizing parallel processing for a smooth real-time experience.

TRELLO CLI SERVICE | NLP, Python, SQL, DGL   **Sept 2022 - Dec 2022**
- Developed a Trello Command Line Interface (CLI) tool enabling the integration of board, card, and label management with Python, Poetry, Typer, and Trello API.
- Implemented functionalities for creating cards, adding labels, retrieving board details, and performing r/w operations on Trello boards.

EDUCATION

Masters in Computer Science
Arizona State University | Tempe, AZ   CGPA: 3.8/4

Bachelors in Electronics and Computer Engineering
SRM Institute of Science and Technology | Chennai, India   CGPA: 3.5/4