

# Kirity Ganga

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## EDUCATION

### Masters in Computer Science | 2021- 2023

Arizona State University | Tempe, AZ

CGPA: 4/4

### Bachelors in Electronics and Computer Engineering | 2016- 2020

SRM Institute of Science and Technology | Chennai, India

CGPA: 3.5/4

## SKILLS

**Programming Languages/Software:** Python, Golang, C#, SQL(MySQL), Javascript, C++, Apex

**Frameworks/Libraries:** FastAPI, .NET, Pytest, Tensorflow, Keras, Flask, Hadoop, Spark, React-Redux, Angular

**Datastores, and Orchestration:** Docker, MySQL, Postgres, MongoDB, Kinesis, MSK, Kubernetes, Salesforce

**Cloud Technologies:** AWS (S3, Lambda, Athena, Kinesis, IAM, SQS, SNS, Quicksight), GCP (OAuth2, Analytics), Git

**Certificates:** AWS Developer Associate

## PROFESSIONAL EXPERIENCE

### Medynsky and Associates | Tempe, Arizona, US: Software Engineer

Jan 2023 - Present

- Achieved a 23% decrease in security breaches by implementing security protocols and user authentication systems, developing a CRUD application within the Python Django backend and React JavaScript frontend.
- Revamped customer retention by 27%** by orchestrating the development of modular architecture and user interface enhancements for the online analytics dashboard.
- Enabled a **35% increase in user responsiveness and interaction rates** facilitating Google Analytics API and MongoDB to collect and analyze user interaction data, implementing custom tracking events to capture user actions.
- Devised real-time updates of key metrics, allowing users to monitor user engagement and behavior instantly.
- Spearheaded DevOps team to create **CI/CD pipelines** using Gitlab for automated & independent deployment.
- Managed code versioning with GitHub, and deployment to staging and production servers and implemented MVC architecture in developing the web application with the help of the Django framework.

### Raven Industries | Scottsdale, Arizona, US: Software Engineer

May 2022 - Dec 2022

- Developed two microservices architectures to generate false positive reports and log vehicle verification reports.
- Saved \$35,000 in manual processing costs** by designing and developing ETL processes in Glue to migrate Big Data from sources like S3, ORC/Parquet/Text Files to Redshift.
- Maintained data pipelines that **processed 1 TB of data daily** and automated report generation using Lambda, Athena, and Quicksight, operations for big data analytics and processing, resulting in improved scalability and resource utilization.
- Modeled a full-stack service-oriented log processing service that communicates with **AWS SQS** & writes data to S3.
- Containerized the applications and deployed them to the cloud creating an ECR instance (a base image for Lambda).
- Reduced deployment timing by 25% and increased deployment frequency by 10%** by implementing effective Apex triggers in **Salesforce Environment** to streamline data processes, improving reliability and minimizing downtime updates.

### Bitsilica | Hyderabad, India: 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%**.
- Employed custom **REST API** using Javascript web applications architecture and executed the microservice architecture 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 website interface.
- Use Celery as a task queue and RabbitMQ, and Redis as a messaging broker to execute asynchronous tasks.
- Reduced database query times by 60%** by developing a module to build ORM queries that can pre-load data, greatly reducing the number of database queries needed to retrieve the same amount of data.

### Bitsilica | Hyderabad, India: Research Engineer Intern

Sept 2019 - Dec 2019

- Architected a scalable and decoupled system leveraging AWS services for ingesting, **ETL processing**, and storing streaming Big Data, ensuring flexibility and fault tolerance according to industry standards.
- 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.
- Monitored and **supervised automated test scripts** to meet client's requirements and ensure product quality.

## PROJECTS

### REAL-TIME BALL TRACKING WITH WEBRTC | WebRTC, Python, Multiprocessing

Jan 2023 - Mar 2023

- Implemented real-time communication using WebRTC, establishing a low-latency connection between the server and client.
- Utilized computer vision techniques, including the Hough Circle Transform, to detect and continuously track moving balls.

### TRELLO CLI SERVICE | Skills: NLP, Python, SQL, DGL

Sept 2022 - Dec 2022

- Developed a Trello Command Line Interface (CLI) tool enabling board, card, and label management with Python, Poetry, Typer, and Trello API integration.

## ACHIEVEMENTS

- Received the 'Top Performer Intern 2020' award and full-time extension as a Software Engineer, based on performance.