

Kirity Ganga

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EDUCATION

Masters in Computer Science

Arizona State University | Tempe, AZ

May 2023

CGPA: 3.8/4

Bachelors in Electronics and Computer Engineering

SRM Institute of Science and Technology | Chennai, India

May 2020

CGPA: 3.5/4

SKILLS

Programming Languages/Software: Python, Golang, C++, SQL(MySQL), Java, Tableau, Jira, Git, Agile

Frameworks/Libraries: Pandas, Pytest, OpenCV, REST APIS, Matplotlib/Seaborn, Tensorflow, Keras, Flask, Hadoop, Spark

Datastores and Cloud: AWS, Docker, MySQL, Postgres, Apache Kafka, Kubernetes

Certificates: AWS Cloud Practitioner, Machine Learning: Regression and Classification

PROFESSIONAL EXPERIENCE

Mednsky and Associates | Tempe, Arizona, US: Full Stack Developer

July 2023 - Present

- Implemented secure user authentication systems utilizing Google tools within Flask backend and React frontend, ensuring strong protection for user accounts and sensitive data.
- Developed a reliable login system using Google's authentication features, making sure only authorized users could access important parts of the application.
- Created safe and smooth login processes, enhancing the company's security measures and safeguarding user information.

Raven Industries | Scottsdale, Arizona, US: Data Engineer

May 2022 - Aug 2022

- Refactored the Polygrapher code to create independent and automated false positive and log verification reports processes.
- Engineered AWS-based data pipelines and automated report generation using Lambda, SQS, and Athena, streamlining operations for efficient data processing.
- Dockerized and deployed the applications on AWS after creating an ECR instance of the image container.
- Designed and deployed containers with 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 | Hyderabad, India: Software Developer

June 2020 - May 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 libraries like FaceNet.
- Employed custom REST API using Flask web applications architecture and executed the model on a Linux cloud platform, prioritizing efficient deployment and development processes.

Bitsilica | Hyderabad, India: Research Engineer Intern

Jan 2020 - May 2020

- Researched and compared autoencoders to efficiently denoise ECG signals without compromising the R peak metric.
- Employ best coding practices and object-oriented programming techniques such as abstraction and association to work on full-stack software development projects
- Received the 'Top Performer Intern 2020' award and full-time extension as a Software Engineer, based on performance.

ACADEMIC PROJECTS

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

Jan 2023 - Mar 2023

- Implemented real-time communication using WebRTC, establishing a low-latency connection between the server and the client, enabling seamless video streaming.
- Utilized computer vision techniques, including the Hough Circle Transform, to detect and continuously track a moving ball within live video streams.
- Developed an interactive client-side application that visually overlays real-time ball coordinates on the video feed, enhancing the user experience.
- Employed a multi-process architecture to ensure uninterrupted ball tracking alongside WebRTC communication, optimizing parallel processing for a smooth real-time experience.

GUI APP AUTOMATION TESTING | Skills: Python, Tkinter, PyAutoGUI

Jan 2022 - May 2022

- Developed a GUI automation testing project using the Tkinter web framework and PyAutoGUI library in Python.
- Created two versions of the application, AppV1 and AppV2, with different functionalities and interfaces.
- Recorded and executed 12 test cases to automate GUI testing, ensuring application executability, page navigation, etc.

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.
- Implemented functionalities for creating cards, adding labels, retrieving board details, and performing read/write operations on Trello boards.
- Wrote comprehensive test cases ensuring robustness and reliability of the application's functionalities and interactions.

IMAGE-BASED SEARCH ENGINE | Skills: Python, Numpy, OpenCV

Sept 2021 - Dec 2021

- Retrieved similar images from the data set using feature models like Extended Local Binary Patterns and HOG.
- Dimensionally reduce the features into a semantic feature vector space using PCA and SVD to improve accuracy.
- Applied Personalized PageRank and ASCOS++ algorithm to retrieve most similar images from a dataset of 4000 images.