

# Swetna Annette Tribhuvan

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Master's in Computer Science

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Google Developer Certificates

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## EDUCATION

### •Rochester Institute of Technology

*Master's in Computer Science*

2021-Current

Rochester, NY

### •Don Bosco Institute of Technology

*Bachelor's in Information Technology*

2017-2021

Mumbai, India

## OBJECTIVE

Results-driven Back-End Software Engineer with a Master's degree in Computer Science and a strong background in developing scalable and efficient systems. Passionate about leveraging emerging technologies and industry best practices to deliver high-quality software solutions. Seeking an Entry-Level Back-End Software Engineer position to contribute to a dynamic team and enhance my skills in a fast-paced environment.

## EXPERIENCE

### •Information & Technological Services- RIT

*Software Engineering Intern*

May 2023 - Current

Rochester

- Developing a captivating Grafana dashboard to visually represent energy consumption and occupancy data for RIT classrooms.
- Spearheaded data cleaning, precise calculations, and comprehensive report generation for insightful analysis.
- Leveraged PostgreSQL and Prometheus to efficiently filter and query data.
- Orchestrated the seamless deployment of the system in a Kubernetes environment, integrating it with a website for enhanced user interface and accurate energy calculation.

## PERSONAL PROJECTS

### Detection and Classification of Poison Ivy

September 2022 – December 2022

*This project helps create a model to detect poison ivy's through images and classify them.*

- Developed a model using machine learning techniques to accurately identify poison ivy.
- Collected and labeled a data set of over 1000 images, achieving 89% accuracy using a convolution neural network.
- Implemented data augmentation and transfer learning to improve the model's performance.

### Wordle Solver using Machine Learning

January 2023 - April 2023

*System created to guess and solve the NY times wordle of the day in the least possible tries.*

- Developed an advanced Python-based Wordle Solver utilizing a dataset of 2,309 possible words.
- Trained a machine learning model on the dataset, enabling precise predictions based on the NY Times Wordle of the Day screen depiction.
- Achieved exceptional accuracy, consistently solving Wordle puzzles with minimal attempts.

### Ground Water Prediction Using Geo-Spatial Analysis

(September 2020 – March 2021)

*Introduced a ground water prediction and geo-spatial analysis system as a solution to water scarcity.*

- Conducted geospatial analysis to detect and predict groundwater usage in a village using GIS software.
- Analyzed topographical, hydro-logical, and geological data to identify high-potential groundwater areas.
- Assessed land use and vegetation patterns through remote sensing data to understand their relationship with groundwater availability.
- Achieved a prediction accuracy rate of approximately 92% and developed an Android application and website for easy accessibility and dissemination of information.

## TECHNICAL SKILLS AND INTERESTS

**Languages:** Java, Python, JavaScript, C#, C, Matlab, R programming, HTML, CSS, LISP

**Frameworks:** Grafana, Kubernetes, Django, Spring Boot, ReactJS, Node.js, Flask, Bootstrap, RESTful API (REST), phpMyAdmin

**Cloud/Databases:** DBMS, PostgreSQL, MongoDB, SQL, Relational Databases (MySQL, Redis, Amazon SimpleDB), Prometheus, Cassandra

**Machine Learning & DevOps Tools:** Scikit Learn, TensorFlow, NumPy, Pandas, Matplotlib, DevOps: Amazon Web Services (AWS), Google Cloud, Docker, Git

**Concepts:** Object-oriented design, Algorithms and Data Structure, Agile, API designs, Application Development, Debugging, System Architecture, Documentation, Linux, Maven Tools & Gradle Projects

**Soft Skills:** Communication, Collaboration, Team Management, Leadership

## POSITIONS OF RESPONSIBILITY/ CERTIFICATES

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•**Position**, Artificial Intelligence Club- DBIT

*Team Head*

•**Position**, Computer Society of India

*Technical Member*

•**Volunteer**, Covid India National Taskforce

*Technical & Government relations intern*