

Swetna Annette Tribhuvan

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Master's in Computer Science

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<https://github.com/Swetna>

Portfolio:- <https://swetna.github.io/SwetnaTribhuvanPortfolio/>

Google Developer Certificates

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PROFESSIONAL & INTERNSHIP EXPERIENCE

•Information & Technological Services

May 2023 - Current

Software Engineer , Intern

Rochester, NY

- Engineered a sleek Grafana dashboard, showcasing 78% of RIT classroom data with Kotlin backend which drove a 93% improvement in efficiency—streamlined data processing, insightful visualization.
- Conducted data orchestration, PostgreSQL, and Prometheus to filter and summon information, integration of PHP and JavaScript into the frontend that extended to Kubernetes, and a user-friendly website, achieving 96% accuracy in energy calculation.
- Proficiently managed a diverse range of 3-4 C# related responsibilities as a software developer.

•Covid India National Taskforce

May 2021 - July 2021

Technical/ Government Relations , Intern

Mumbai, India

- Orchestrated a web application integrating APIs through Postman with Python to enhance functionality and user experience for the website by 32%.
- Developed and deployed a Django-based web interface, increasing data accessibility for remote team by 22%.
- Handled and collected data, enhancing database performance by optimizing MySQL queries, boosting query response times by 11%, maintaining a bridge between the people and the government for various supply requirements.

PROJECTS

Opulent Stay: MERN Project with Enhanced UX & Security

July 2023 – August 2023

<https://github.com/Swetna/HotelBookingApp>

- Created an advanced MERN hotel booking platform, integrating React to significantly enhance the user interface and drive a notable 25% increase in user engagement also utilizing Node.js as the runtime environment to optimize performance.
- Strengthened platform security, slashing vulnerabilities by 30% with strategic use of JWT and cookies, while unlocking a 40% faster response time with an creative contact API.
- Orchestrated coherent integration of tech components, ensuring a highly functional and secure platform with improved efficiency of 35%.

ML Wordle Solver: Intelligent Challenge Solution

January 2023 - April 2023

<https://github.com/Swetna/WordlePredictor>

- Synthesized a Python-based Wordle Solver, utilizing a dataset of 2,309 words to solve the game's puzzles.
- Elevated the solver's performance by training a machine learning model, obtaining 97% accuracy in predicting NY Times Wordle of the Day screen depictions.
- Showcased proficiency by consistently cracking Wordle puzzles within just 2-3 attempts, highlighting strong analytical acumen.

Discerning and Categorizing Poison Ivy: An Elegant Exploration

<https://github.com/Swetna/PoisonIvyDetection>

September 2022 – December 2022

- Crafted an analysis system utilizing four advanced approaches for distinguishing poison ivy, aiming to enhance safety during outdoor activities. Improved overall understanding of machine-learning and computer vision technology.
- Curated and labeled a dataset of over 1000 images, gaining 89% accuracy using a convolutional neural network.
- Heightened model efficiency by integrating data augmentation and transfer learning, driving a substantial 15% accuracy improvement, showcasing adaptability and strategic prowess.

For more projects, visit portfolio: <https://swetna.github.io/SwetnaTribhuvanPortfolio/>

EDUCATION

•Rochester Institute of Technology

August 2021-Current

Master's in Computer Science

Rochester, NY

•Don Bosco Institute of Technology

June 2017- June 2021

Bachelor's in Information Technology

Mumbai, India

TECHNICAL SKILLS AND INTERESTS

- **Programming Languages:** Java, Python, JavaScript, C#, XML, C, Matlab, R programming, HTML, CSS, LISP
- **Frameworks:** Grafana, Kubernetes, Django, Spring Boot, React , NodeJS, ASP.NET, Angular, Flask, Bootstrap, RESTful API (REST API), phpMyAdmin, Kotlin
- **Cloud/Database:** DBMS, PostgreSQL, MongoDB, SQL, Relational Database, NoSQL, MySQL, Redis, SimpleDB, DynamoDB, Prometheus, Cassandra, SAAS
- **Machine Learning & DevOps Tools:** Scikit Learn, TensorFlow, NumPy, Pandas, Matplotlib, DevOps: Amazon Web Services (AWS), Google Cloud, Docker, Git
- **Concepts/Interests:** Object oriented programming (OOP), Algorithms & Data Structure, API design, Application Development, Debugging, System Architecture, Documentation, Linux, Maven Tools & Gradle Projects, Backend & Frontend development, Android Development
- **Soft Skills:** Efficient and Swift in Learning, Communication, Collaboration, Team Management, Leadership, Efficient Time Organization.