

# Swetna Annette Tribhuvan

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Master's in Computer Science

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<https://github.com/Swetna>

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

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## PROFESSIONAL & INTERNSHIP EXPERIENCE

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### Information & Technological Services

May 2023 - May 2024

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 and 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.
- Effectively oversaw website operations for the department, developing and maintaining it using PHP, JavaScript, and Laravel.
- Proficiently assumed the role of Scrum Master, orchestrating daily stand-ups, sprint planning, and backlog grooming sessions and retrospective analyses.

### Covid India National Taskforce

May 2021 - July 2021

Web developer, 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.
- Engaged in regular Agile methodologies, sprint planning sessions, stand-up meetings, and retrospective analyses to optimize project progress and team collaboration.

## PROJECTS

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### Luxurious 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 logical integration of 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.

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

## EDUCATION

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### Rochester Institute of Technology

August 2021-December 2024

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

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- Programming Languages:** Java, Python, JavaScript, PHP, 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, Larvel.
- 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, Agile, Scrum.
- Soft Skills:** Efficient and Swift in Learning, Communication, Collaboration, Team Management, Leadership, Efficient Time Organization.

## CERTIFICATIONS

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**AWS Certified Cloud Practitioner** - Amazon Web Services

April 2024

**Introduction to Generative AI** - Google Cloud

July 2023