

# Swetha Naga Sai Chirumamilla

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## Summary

Graduate student in computer science with practical expertise in data analysis, full-stack programming, and application security. Shown capacity to use technologies like Checkmarx and Acunetix to enhance online application security. Competent in leveraging Flask, MongoDB, Socket.IO, and Python to create secure database designs, scalable backend systems, and real-time APIs. Enthusiastic in using secure coding techniques and data-driven ways to solve real-world issues. Adept at learning new technologies on a constant basis and working across teams..

HTML Resume : [Swetha Naga Sai Chirumamilla](#) 🔗.

## Skills

**Java, Python, HTML/CSS, JavaScript, GitHub, MySQL, ReactJS, AngularJS, Flask, NodeJS, MongoDB Atlas, Vulnerability Assessment, Q/A Testing, Program Analysis**

**Cloud Platform:** Google Cloud, ServiceNow

**Tools:** checkmarks, Acunetix, RPA

## Experience

**Cognizant**, Programming Analyst

Hyderabad, India  
July 2022 – Jan 2024

**Cognizant Technology Solutions** A leading global IT services and consulting company providing digital, technology, consulting, and operations services to clients across various industries.

- Improved web application security by 25 percent by conducting comprehensive vulnerability assessments and secure code reviews.
- Improved security posture by 20 percent by leveraging Checkmarx (SAST) and Acunetix (DAST) for vulnerability analysis.
- Collaborated with development teams to provide detailed remediation guidance and ensure secure coding practices.
- Delivered regular reports on security posture and supported compliance with internal security standards and best practices.
- Redesigned chat file format and implemented backward compatibility for search

## Education

**MS**    **Kent State University**, Computer Science

Kent, OHIO  
Jan 2024 – Dec 2025

- GPA: 3.55/4.0

- **Coursework:** Big Data Analytics, Machine Learning, Database System Design, Digital Forensics, Information Security, Data Mining Techniques.

## Certifications

**Google Data Analytics Professional Certificate (v2)** [Coursera](#) 🔗

Sep 2025

**ServiceNow Certified Administrator**

- Knowledgeable about administering ServiceNow instances, including group and user administration, form and workflow configuration, data integrity, and the usage of ITSM modules to optimize business procedures.

**RPA Certified Professional**

Skilled in designing, developing, and deploying Robotic Process Automation solutions to automate repetitive tasks, improve process efficiency, and reduce operational costs using RPA tools and best practices.

## Projects

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### Truest Ride

[github/Truest-Ride/Repo](#) 

Jan 2025 - May 2025

- A student-focused ride-sharing platform enabling secure, real-time ride booking and communication. Built with React, Flask, MongoDB, and Socket.IO to support passwordless authentication, live chat, and scalable ride management.
- Improved user engagement by 15 percent by building APIs for real-time messaging using Flask, MongoDB, and Socket.IO.
- I created in place scalable and safe endpoints for user administration that let users add, edit, and remove account details. To guarantee relational consistency and future scalability, I also oversaw the creation of the main database schemas for the User, Ride, OTP, Chat, and Message models. These models, which were thoughtfully designed to allow strong interactions like User-Ride and Ride-Chat, served as the foundation for the app's functioning.

### Pest Classification Using CNN

[github/Pests-CNN/repo](#) 

April 2024 - May 2024

- An innovative method for categorizing pests from picture data is presented in this report. Convolutional Neural Networks (CNN) with transfer learning implemented in the EfficientNetV2-L architecture are used. This research aims to correctly categorize photos into one of twelve different pest groups, which will support agriculture and pest management methods. Our model significantly improves classification efficiency and accuracy by utilizing the powerful feature extraction capabilities of EfficientNetV2-L and the benefits of transfer learning. We prove the efficacy of our approach in accurately identifying a range of pests using thorough evaluation and testing on diverse datasets, hence helping in the development of robust pest detection systems. Our research opens the way to improved ways to manage pests and sustainable farming methods by proving the potential of CNNs and transfer learning in solving real-world issues in agriculture.
- Improved model understanding by implementing Grad-Cam visualization.

### Password Manager With Encryption

[github/PWManager/repo](#) 

April 2024

- This project involves creating a secure password manager application that can generate, store, retrieve, and manage user's passwords. All passwords stored by the application must be encrypted to ensure security.
- Tools Used: Python

### Recipe Management System

[github/Recipe/repo](#) 

Oct 2024 - Dec 2024

We created a web application called the Recipe Management System. This system will help users organize and manage their favourite recipes. Users will be able to:

- Add new recipes with their name, type of cuisine, and list of ingredients.
- View all their saved recipes in one place.
- Edit or delete recipes when needed.