

# SWAYAM MEHTA

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## SUMMARY

Self-motivated philomath with a strong foundation in data structures, algorithms, and proficiency in latest web development tools. Eager to leverage my innovative mindset in a software development internship for summer 2025.

## EDUCATION

### MS Computer Science

Expected May 2026

Arizona State University

### BTech Computer Science and Engineering

May 2024

Vellore Institute of Technology

8.65 CGPA

## SKILLS

### Programming

Java, Kotlin, Python, HTML, CSS, JavaScript, SQL, C++

### Frameworks/Libraries

Flask, NextJS, ReactJS, REST, Jetpack Compose

### Tools/Technologies

Linux, Git, MySQL MongoDB, Azure, Kubernetes, Prometheus, Grafana, Falco

## EXPERIENCE

### CTY Intern

Jan 2023 - June 2023

#### Hewlett Packard Enterprise

- Developed the **HPC Security Dashboard**, integrating **5 modular tools** to perform static code analysis, identify compliance issues, detect threats and vulnerabilities and ensure runtime security for Kubernetes clusters.
- Deployed **Falco pods** to capture event metrics, **combining Falco Exporter with Prometheus**, ensuring robust threat detection by simulating and mitigating **6 malicious system call scenarios**.
- Designed and configured a Falco dashboard in **Grafana**, featuring custom visualizations for metadata and occurrence rates of **150+ events**, priority alerts, and most frequently violated rules, improving real-time incident response and system insight.

## PROJECTS

### SEO Rank Tracker [NextJS, MongoDB, Tailwind CSS]

November 2024

- Enabled users to monitor Google search rankings for domains and keywords using **SerpAPI**, with interactive graphs displaying rank trends over time, enhancing SEO performance tracking.
- Implemented **Google Auth** for secure access and automated rank updates with a **weekly cron job** ensuring consistent and up-to-date insights with minimal manual effort.

### StockPulse [Flask, JavaScript, Python]

May 2024

- Developed a comprehensive stock market tool for beginners, providing insights on **1500+ NSE-listed companies**. Designed visualizations for **10+ technical indicators** and integrated a **Gemini-powered chatbot** for real-time stock price queries and graph analysis.
- Utilized **Prophet** and custom **LSTM, GRU, GAN** and **WGAN-GP** models with **RMSE<2** for accurate price forecasts. Generated **VADER** sentiment scores from latest news, enhancing users' decision-making capabilities.

## LEADERSHIP

### Secretary [IEEE Computer Society - VIT]

Jan 2023 - Dec 2023

- Led a cross-functional team to launch **Chota Dhobi**, a laundry service tracking app that has **24000+ active users**. Streamlined user onboarding and developed promotional campaigns that drove a **15% month-over-month user growth**.
- Spearheaded the planning and execution of **HackBattle**, a 36-hour hackathon with **1,000+ participants**. Managed event logistics, coordinated workshops, and delivered a seamless experience, resulting in a **30% increase in member engagement and sponsorship growth**.
- Produced **TechNiche**, a 40-video YouTube series featuring tutorials across various tech domains. Created compelling social media campaigns that **increased follower engagement by 50%**.

## CERTIFICATIONS

- Microsoft Certified: Security, Compliance, and Identity Fundamentals