

# SWAYAM MEHTA

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## SUMMARY

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

## EDUCATION

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**MS Computer Science**

Expected May 2026

Arizona State University

**BTech Computer Science and Engineering**

May 2024

Vellore Institute of Technology

8.65 CGPA

## SKILLS

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**Programming** Java, Kotlin, Python, Flask, React, HTML, CSS, JavaScript, SQL, C++

**Tools/Technologies** Linux, Git, Kubernetes, Prometheus, Grafana, Falco

## EXPERIENCE

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**CTY Intern**

Jan 2023 - June 2023

**Hewlett Packard Enterprise**

- Implemented the **HPC Security Dashboard** by integrating 5 modular tools to perform static code analysis, identify compliance issues, threats and vulnerabilities, and provide runtime security for **Kubernetes** clusters.
- Deployed **Falco** pods to capture event metrics, combining **Falco Exporter** with **Prometheus**. Tested configuration across 6 distinct malicious system call scenarios to ensure robust threat detection and system monitoring.
- Set up the Falco dashboard in **Grafana** with custom visualizations for metadata and occurrence rates of 150+ events, priority alerts and most frequently violated rules.

## PROJECTS

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**EindhovenPulse [Kotlin, Jetpack Compose, RoomDB]**

Fall 2024

- Developed a context-aware mHealth app to monitor heart rate through video analysis (**CameraX**), respiratory rate via **accelerometer** data, and symptom severity, facilitating real-time health tracking within 45 seconds.
- Optimized app functionality with **coroutines** for asynchronous processing, boosting UI responsiveness and reducing risk of ANRs by keeping main thread unblocked. Implemented **back handling** and dynamic **runtime permission requests**, enhancing user trust and engagement by requesting permissions contextually.

**StockPulse [Flask, JavaScript, Python]**

Spring 2024

- Developed a comprehensive stock market tool for beginners, providing insights on over 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**, **LSTM**, **GRU**, **GAN** and **WGAN-GP** to provide accurate price forecasts (**RMSE** < 2) and generated **VADER** sentiment scores from latest news, enhancing users' decision-making capabilities.

## EXTRA-CURRICULAR ACTIVITIES

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- UI/UX designer**, **social media manager** and **blog writer** for IEEE Computer Society - VIT on Medium.
- Won gold and silver medals at district level **Shotokan Karate** competitions. Led a team of 25 members in the **VIT Dance Club** to secure 3rd place at IIM Indore's dance fest.

## LEADERSHIP

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**Secretary [IEEE Computer Society - VIT]**

Jan 2023 - Dec 2023

- Spearheaded the launch of the **Chota Dhobi App**, a laundry service tracking app that has 24000+ active users.
- Organized **HackBattle**, a 36-hour hackathon with 1000+ participants, along with workshops and cryptic hunts.
- Produced **TechNiche**, a 40-video YouTube series featuring tutorials across various tech domains.

## CERTIFICATIONS

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- Microsoft Certified: Security, Compliance, and Identity Fundamentals