

SWAYAM MEHTA

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SUMMARY

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

EDUCATION

MS Computer Science	Expected May 2026
Arizona State University	4.0 GPA
BTech Computer Science and Engineering	2020 - 2024
Vellore Institute of Technology	8.65 CGPA

SKILLS

Programming	Java, Kotlin, Python, HTML, CSS, JavaScript, SQL, C++
Frameworks/Libraries	Flask, NextJS, ReactJS, D3.js, REST, Pandas, Numpy
Tools/Technologies	Linux, Git, MySQL, MongoDB, AWS, Kubernetes, Prometheus, Grafana, Falco

EXPERIENCE

Vellore Institute of Technology: Research Intern	01/2024 - 05/2024
<ul style="list-style-type: none">Enhanced stock price prediction accuracy by optimizing <i>GAN-based models</i> with additional market indices and technical indicators, lowering RMSE values by 40.21% compared to previous research.Developed a web application integrating real-time stock data, sentiment analysis, with Gemini-powered forecasting & chatbot, enabling users to make informed investment decisions with a user-friendly interface.Analyzed the impact of external events like COVID-19 on predictive models, demonstrating that traditional deep learning models (LSTM, GRU) outperformed GANs in highly volatile market conditions.	
Hewlett Packard Enterprise: CTY Intern - High Performance Computing	01/2023 - 06/2023
<ul style="list-style-type: none">Integrated 5 modular Kubernetes security tools to perform static code analysis, identify compliance issues, detect threats and vulnerabilities and ensure runtime security for Kubernetes clusters.<i>Deployed Falco pods</i> to capture event metrics, <i>combining Falco Exporter with Prometheus</i>, ensuring robust threat detection by simulating and mitigating 6 malicious system call scenarios.Configured a Falco dashboard in Grafana, featuring custom visualizations for most frequently violated rules, high-priority alerts, metadata and occurrence rates of 150+ events, thus improving real-time incident response.	

PROJECTS

Knowledge Graph Generator [Streamlit, Flask, JavaScript]	January 2025
<ul style="list-style-type: none">Developed a tool that extracts and visualizes relationships from articles, newspapers, and research papers using Google Generative AI and NetworkX, enhancing text comprehension through interactive graphs.Built a web application and browser extension, enabling users to generate and download knowledge graphs directly from webpages for seamless real-time analysis.	
SEO Rank Tracker [NextJS, MongoDB, Tailwind CSS]	November 2024
<ul style="list-style-type: none">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.	

LEADERSHIP

IEEE Computer Society - VIT: Secretary	01/2023 - 12/2023
<ul style="list-style-type: none">Led a cross-functional team to launch Chota Dhobi, a laundry service tracking app that has 24000+ active users. Streamlined user onboarding and drove 15% month-over-month user growth through campaigns.Organized HackBattle, a 36-hour hackathon with 1,000+ participants, managing logistics, workshops, and sponsorships, resulting in a 30% increase in engagement and funding.	

CERTIFICATIONS

- Microsoft Certified: Security, Compliance, and Identity Fundamentals