

# SUJAL M H

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## EDUCATION

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**B. E., Computer Science & Engineering**, Mangalore Institute of Technology and Engineering Expected 2026

**Relevant Coursework:** Principles of Programming Using C, Introduction to Web Programming, Object Oriented Programming with Java, Data Structures and Applications, Analysis & Design of Algorithms, Database Management Systems, Introduction to IoT, Discrete Mathematical Structures.

## SKILLS

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<b>Languages</b>	Python, Java, C, JavaScript, HTML
<b>Technologies and Tools</b>	React, Node.js, Django, Flask, MySQL, Docker, Azure, Wireshark, Ghidra
<b>Technical Skills</b>	Competitive Programming, Data Structures, Problem-Solving, Penetration Testing
<b>Soft Skills</b>	Communication, Leadership, Teamwork

## EXPERIENCE

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**Online FRT Microsoft Internship.** Jul 2023 - Oct 2023

Successfully Completed the 10-week Future Ready Talent program, an AICTE-approved virtual AI internship. Mastered 190 hours of Azure Cloud, AI, Flask framework and Security coursework. Developed hands-on skills by completing a AI project, Portfolio Construction and Optimization demonstrating real-world application of my newfound knowledge. ([Completion certificate](#))

## PROJECTS

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**LinkedIn Post Sentiment Analysis** This project performs sentiment analysis on LinkedIn posts by analyzing the comments. Based on the insights gathered from the sentiment analysis, the system generates new posts focused on current hot topics. The project leverages Natural Language Processing (NLP) techniques and machine learning models to extract meaningful information from the comments and suggest relevant content.

**Portfolio Construction and Optimization** This Flask-based web application is engineered to empower users in generating, optimizing, and sharing investment portfolios tailored to their financial goals and risk appetites. Leveraging financial and data analysis libraries, the platform seamlessly integrates stock data retrieval, portfolio optimization using mean-variance and interactive data visualization.

**Vulnerability Monitoring and Reporting Tool** Dynamic web-scraping tool designed to monitor and report critical and high-severity vulnerabilities for IT and OT equipment published by OEMs and other relevant platforms. The tool ensures timely alerts to organizations for mitigating potential risks by extracting vulnerability details, severity, and recommended solutions. The tool also uses AI (NLP) to summarize extracted data and provide relevant insights.

**Ticket Management, Scanner, and Generation** This project is a comprehensive application for managing tickets related to merchandise using Flask for the backend and Html5-QRCode for ticket scanning. The application includes functionalities for ticket management, scanning, and generation, providing a seamless experience for both administrators and users. The university used the application to streamline ticket management processes.

**Game Preference Prediction using ML** Built a machine learning model to recommend game preferences based on previously played games. The model considers factors such as game genres and user behavior patterns to deliver personalized recommendations, enhancing user experience.

## CERTIFICATES

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**Python for Data Science Achieved top 1%** in the course by IIT Madras in NPTEL. Focused on algorithms, recursion, arrays, and numerical methods for solving arithmetic and logical problems using C. ([Completion certificate](#))

**Problem Solving Through Programming in C Achieved top 5%** in the course by IIT Kharagpur in NPTEL. Covered Python programming for data analysis, visualization, and solving real-world data science problems. ([Completion certificate](#))

**Google Cybersecurity Specialization** Provided skills to identify, mitigate risks, and secure systems using SIEM tools, Python, Linux, and SQL. ([Completion certificate](#))

## ACHIEVEMENTS

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**Secured 1st Place in the ZERO DAY CTF** a national-level cybersecurity competition organized by Zero Logon, sponsored by NULL Kolkata and PWNEDLABS. Demonstrated expertise in reverse engineering, web exploitation, cryptography, and forensics. ([Certificate](#))

**Secured 3rd Place in the ACN Capture The Flag** Aheld during Amrita CyberNation 3rd Edition on September 11-12, 2024, organized by the Department of Computer Science and Engineering, Amrita School of Computing, Chennai. ([Certificate](#))

**Secured 4th Place in the RVCExIITB CTF** conducted by the Coding Club RVCE in collaboration with IITB Trust Lab, IIT Bombay, and YCF Team on June 22, 2024, at RV College of Engineering, Bangalore. ([Certificate](#))

**Selected for the final round of Smart India Hackathon (SIH) 2024** showcasing innovative problem-solving skills at a prestigious national-level event.

## LEADERSHIP

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**Founded and Led the Crypton Club** Established and managed a cybersecurity-focused club to foster learning through workshops, competitions, and knowledge-sharing sessions.

**Organized Hack Heist 2.0 CTF** Successfully planned and conducted a national-level Capture The Flag competition, coordinating with participants, sponsors, and mentors to ensure a seamless event.