

Antony S Mechery

B.Tech in Computer Science | Kerala, India

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Objective

Final-year Computer Science Engineering student proficient in **Python**, Full-Stack Development (MERN), and **AI** integration. Demonstrated ability to build **predictive models** for security applications and implement solutions using robust encryption standards. Seeking an internship to leverage skills in **Machine Learning, Python, and SQL** to develop data-driven software solutions while contributing to agile engineering teams.

Education

Sahrdaya College of Engineering and Technology <i>B.Tech in Computer Science and Engineering; CGPA: 7.32</i>	Kodakara, Kerala 2022 – 2026
Union Higher Secondary School <i>Higher Secondary Education; Percentage: 90%</i>	Mambra, Kerala 2020 – 2022

Technical Skills

Languages: Python, Java, C, JavaScript (ES6+), HTML5, CSS3, SQL
Frameworks & Runtime: Node.js, React.js, Express.js, Redux Toolkit, Bootstrap, Tailwind CSS
Tools, Platforms, & Databases: Git, GitHub, Docker, MongoDB, PostgreSQL, RESTful APIs, Figma, VS Code

Projects

AI-Driven Cyber Defense Platform <i>React.js, Node.js, MongoDB, Scikit-learn</i>	Nov 2025
<ul style="list-style-type: none">• Developed a comprehensive safety system using machine learning algorithms (Scikit-learn) to detect phishing URLs and hate speech by analyzing large-scale datasets.• Secured sensitive user communications by implementing AES-256-GCM encryption and JWT-based authentication.• Architected a parent/child safety module that analyzes chat patterns using predictive models and triggers real-time email alerts for suspicious activity.	
Assistive Handle for Hand Tremors <i>3D Printing, Human-Centered Design</i>	June 2025
<ul style="list-style-type: none">• Engineered an ergonomic, 3D-printed handle using TinkerCad to assist individuals with hand tremors, improving daily independence.• Optimized the stabilization mechanism using adjustable weights and created modular attachments for various utensils (spoon, fork, brush).	
AI-Based Plagiarism Checker <i>Python, Flask, NLP, Difflib</i>	Nov 2024
<ul style="list-style-type: none">• Implemented a Python-based detection tool utilizing NLP techniques to compare source documents against multiple repositories.• Optimized text similarity scoring by implementing sentence segmentation and the SequenceMatcher algorithm.• Awarded Best Project (Inter-College) for technical innovation and practical utility.	

Achievements

Ranked 2nd in a Capture The Flag (CTF) cybersecurity challenge organized by IEEE and Google Developer Student Clubs .
Selected as a top 30 finalist (out of 300+) in the 'Stride' Hackathon; presented prototype at Kerala Startup Mission .
Received the Best Project Award (Inter-College) for technical innovation in the 2024-2025 academic year.

Certifications

Cloud Computing – Elite Certification – NPTEL, IIT Kharagpur
Artificial Intelligence (AI) Certification – Intel Corporation

Leadership and Extracurriculars

Led a college workshop (WebSphere), mentoring 30+ students in web development fundamentals, including HTML, CSS, and JavaScript.
Volunteered to assist students with hearing impairments in learning web development for portfolio creation.
Active Volunteer, National Service Scheme (NSS), leading community service and social welfare initiatives.