

# John Aaromal

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## Education

<b>Vellore Institute of Technology, Vellore</b> , Tamil Nadu, India	2020 - 2025
M.Tech. Integrated Software Engineering CGPA: 8.45	
<b>St. Columba's School</b> , New Delhi, India	
<b>Class 12:</b> 86.4%	2020
<b>Class 10:</b> 86.2%	2018

## Skills

<b>Programming Languages:</b>	Java, Python, JavaScript
<b>Technologies:</b>	MERN, Next.js, TensorFlow

## Experience

<b>SmartInternz, SmartBridge</b> , Hyderabad, Telangana	
Intern, Cybersecurity Analyst	15 May 2023 - 07 July 2023

- Development of a MERN stack web application for classroom management.
- Conducted a Red Team exercise on the Damn Vulnerable Web Application (DVWA) Vulnhub, focusing on testing for common web application vulnerabilities such as SQL injection, Cross-Site Scripting (XSS), and Cross-Site Request Forgery (CSRF).
- Utilized security tools including Nmap, Nikto, Burp Suite, and Metasploit to assess and exploit vulnerabilities on the target system.
- Documented key learning points and benefits of the Red Team exercise, emphasizing practical application, exploitation techniques, and realistic practice scenarios.

## Projects

### QuizMaster: Interactive Testing Platform for Teachers and Students

- Development of a MERN stack web application for classroom management.
- Implemented features for teachers to share resources and assign tests to students within the platform.
- Designed user interfaces for teachers and students using React.js, ensuring a user-friendly and intuitive experience.
- Utilized Node.js and Express.js to build a RESTful API for handling authentication, data storage, and communication between the frontend and backend.

### SafeCity Sentinel: A Predictive Crime Rate Model for Proactive Policing

- Project focused on developing a robust crime rate prediction model using data mining concepts.
- Utilized advanced machine learning techniques, including KNN, Random Forest, Naive Bayes, XG- Boost, and ensemble methods.
- Conducted extensive data preprocessing, feature engineering, and model evaluation to optimize the performance and accuracy of the predictive model.
- Documented the research process, methodologies, and findings in a comprehensive report, highlighting key insights and recommendations for future improvements

### Web Application Quality Assurance Framework Implementation

- Led testing efforts with diverse methodologies: black box, white box, penetration, load, and stress testing.
- Developed and executed comprehensive test plans and test cases to ensure the functionality, security, and performance of the web application.
- Implemented quality assurance processes and methodologies to maintain high standards of software quality and reliability throughout the development lifecycle.
- Used Tools like Selenium, SonarQube, OWASP ZAP, Burp Suite Apache JMeter.
- Created comprehensive test reports documenting test results, findings, and recommendations for improvement, facilitating informed decision-making and continuous improvement efforts.

## Certifications

### Google Cloud Computing Foundations

- Acquired foundational knowledge of cloud computing concepts, including key components and advantages of cloud technology.
- Explored various compute options available in Google Cloud Platform (GCP) and learned how to leverage them for different use cases.
- Developed an understanding of where and how Google Cloud fits into the broader landscape of cloud computing, big data, and machine learning