

GAUTHAM VIJAYARAJ

CYBERSECURITY - INFORMATION SECURITY - THREAT INTELLIGENCE - RISK ASSESSMENT

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EDUCATION

Master of Science: Computer Science (Cybersecurity)

Arizona State University, Tempe, AZ

May 2025

CGPA: 3.83/4.00

Bachelor of Technology: Computer Science and Engineering

SRM Institute of Science and Technology, Kattankulathur, India

May 2021

CGPA: 3.33/4.00

SKILLS

Programming Languages: Python, Java, JavaScript, SQL and C/C++

Frameworks: NodeJS, Spring Boot, Burp Suite, Wireshark, and Ghidra

Tools: Git, GitHub, Microsoft, Bash, Linux, AWS and Docker

Other Skills: Information Assurance, Cryptography, OWASP Top Ten, Application Security, and Security Frameworks

Publications: One conference publication at the 3rd IEEE AIIoT 2024 ([Link](#))

Certifications: Google Career Certificate - Cybersecurity Professional and others - <https://gauthiii.github.io/#Certifications>

PROFESSIONAL EXPERIENCE

Flutter Full-Stack Developer | Metfolio, London, United Kingdom

December 2022 – March 2023

- Designed and implemented a secure UI for a Fintech application, integrating advanced encryption protocols, conducting weekly security audits and maintenance, resulting in a 30% reduction in security vulnerabilities.
- Deployed the app on the OneSignal platform for real-time push notifications and used Segment for secure customer data mapping, ensuring GDPR compliance and reducing data leakage incidents by 15%.

Assistant System Engineer | Tata Consultancy Services Limited, Chennai, India

June 2021 – November 2022

- Administered Azure Multi-Factor Authentication, bolstered account security for over 200 UK clients and reducing unauthorized access incidents by 40%.

Full-Stack Developer | Freelance, Chennai, India

June 2019 – May 2021

- Developed and implemented security features for various web and mobile applications, including encryption, multi-factor authentication, and secure data storage, enhancing user trust.

INTERSHIPS

Software Developer Intern | HCLTech, Chennai, India

May 2024 – August 2024

- Developed a Spring Boot application with four microservices for a healthcare system, deployed on Docker, enhancing system scalability and reducing downtime by 30%.
- Implemented robust security practices to ensure data protection and system integrity across the healthcare application.

PROJECTS

Nationwide Healthcare Management System | React, Spring Boot and Docker

May 2024 – August 2024

- Developed a comprehensive healthcare system using Spring Boot microservices, deployed on Docker, and hosted on AWS, with a React-based UI. This system is designed to serve as a nationwide database for all the patients of a country.
- Identified security vulnerabilities including injection flaws, broken authentication, and broken access control.
- Designed and implemented security controls to mitigate these vulnerabilities, enhancing the overall security of the application.

Detection Process of Suspicious Activities in Social Media | Data Mining and ML

August 2023 – December 2023

- Finding privacy preserving datasets in order to classify threats occurring on social media on a regular basis.
- Produced a secured ML detection model refraining from tampering or unauthorized modifications.
- Established accurate social media account classification into suspicious or non-suspicious categories, aiming to eliminate false grouping.

Facial Recognition enabled Social Networking Application | Flutter, Firebase and ML

August 2020 – May 2021

- Utilized TensorFlow-based FaceNet with 98.7% accuracy to assess feature similarity in user images for authentication.
- Secured messages with DES encryption and created a cipher algorithm for user chat privacy.
- Implementing new systems to enhance security by 35% and preserved privacy by disabling screenshots.

15+ Projects at: <https://gauthiii.github.io/#Projects>