JOTHI ARUL PRAKASH PONNUSAMI
Security Analyst
jothiarulprakash@gmail.com **|** 427, Creek Crossing RD NE, Vienna, VA, 22180 **|** +1(571)-327-7788 **|**
https://www.linkedin.com/in/jothiarulprakash **|** jothiarulprakash.github.io

SUMMARY

Highly motivated Security Analyst experienced in detecting and securing information with a capability of troubleshooting and investigation of events and skilled in auditing the security controls to ensure policies are compliant with the security standards.

EDUCATION

George Mason University, Fairfax, Virginia   **May 2020**
Master's in Information Security and Assurance

Anna University, India   **Apr 2018**
Bachelor's in Computer Science and Engineering

PROFESSIONAL EXPERIENCE

Teaching Assistant, George Mason University   **Aug 2019 - May 2020**
- Handling online and in-class lecture sessions in security for high school students.
- Mentoring students by conducting hands-on activities dealing with security management.
- Developed basic system configuration and troubleshooting methods to identify the network and system connectivity issues with general assessment tasks.
- Mentoring students, evaluating assignments and awarding grades based on academic progress.

Operations Officer, Blockchain at Mason   **Jan 2020 - May 2020**
- Managing and analyzing projects of multiple domains.
- Participated in the **'Youth Engineering Conference 2020'** to present fundamentals of blockchain.
- Organizing meetups with peer students to discuss upcoming events and connecting with blockchain professionals for research and development.
- Framed and proposed a fundamental blockchain curriculum for training students from different specialization.

Associate Software Engineer, Accenture, India   **Apr 2018 - July 2018**
- Developed and managed project on web-based employee portal application by permitting authenticated users to view authorized components by database interconnectivity.
- Tested the application functionalities like domain connectivity through a secure SSL/TLS connection, user authentication, and dynamic data storage in the database.

TECHNICAL SKILLS

Programming	**:** C, Java, Python, JavaScript, Shell Scripting.
Tools & Technology	**:** IAM, Firewalls, IDS/IPS, AWS, SIEM- Splunk, Burp Suite, Eclipse, Wireshark, MySQL, VMWare, Apache Tomcat, PKI, Microsoft Office, USB Forensics.
Standards & Frameworks	**:** PCI-DSS, SOX-COBIT, RMF, NIST 800-53, IS0 27001.

PROJECTS AND RESEARCH

Application Development
- Secured storage of user information and geolocation data in Google Firebase Tourism App for Ministry of Tourism, India to facilitate tourists in India.
- Secured Cloud-based data sensing model to measure electricity consumption with real-time data and enhanced user alert notification system by using Google Firebase and Arduino platform.
- Secured multi-player web application game by implementing secure SSL/TLS connection, Password hashing, user session management, CSRF and XSS Protection to enhance the confidentiality and integrity of players and game availability.

Academic Research
- Blockchain implementation in IoT Devices for safe communication and avoid intrusion in the protected environment.
- Novel Intrusion Detection System implementation in a Drone network to detect real-time malicious traffic by notifying operational changes based on wavelet analysis and curve similarity score.
- Participated in MIT COVID-19: Beat the Pandemic Challenge- I & II to propose a decentralized news verification platform using Blockchain and County-based risk management application to prevent public by dynamic user risk assessment program.

Malware Analysis
- Static and Dynamic Analysis of WannaCry Ransomware with a simulation of propagation and key management using the cryptographic model and a real-time demonstration.