

Juan Mooneyham

Professional summary

Highly skilled Cryptographer with experience in cryptographic algorithm design, secure communications, and data protection. Expertise in developing and implementing encryption protocols, cryptographic key management, and solving complex security problems. Seeking an opportunity to apply my skills in a challenging cybersecurity role that requires deep knowledge of cryptography to safeguard sensitive information.

Experience

Cryptographer

June 2020 - Now

Lockheed Martin / United States, Fort Worth, TX

- Conduct cryptographic assessments to ensure compliance with industry standards and regulations (e.g., FIPS 140-2, NIST).
- Collaborate with software developers to integrate cryptographic algorithms into applications and systems.
- Perform security audits and vulnerability assessments to identify and mitigate risks associated with cryptographic protocols.
- Stay current with emerging cryptographic research and advancements in quantum computing, preparing the organization for future challenges in encryption and security.

Cryptography Engineer

August 2017 - May 2020

Northrop Grumman / United States, Irving, TX

- Engineered secure systems for military and government applications.
- Developed and optimized cryptographic libraries, including RSA, AES, and ECC, for data protection in high-security environments.
- Evaluated and implemented key exchange protocols such as Diffie-Hellman and Elliptic Curve Diffie-Hellman (ECDH).

Junior Cryptography Analyst

June 2015 - July 2017

General Electric (GE) / United States, Dallas, TX

- Participated in the evaluation of cryptographic standards, including AES, RSA, and SHA-256.
- Performed encryption and decryption operations using custom-developed tools, ensuring system integrity and data confidentiality.

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Education

Master of Science in Computer Science (Specialization in Cryptography)

University of Texas at Austin

United States, Graduated: 2015

Bachelor of Science in Mathematics

University of Texas at Austin

United States, Graduated: 2013

Skills

Protocols: TLS/SSL, IPSec, HTTPS, PKI, VPNs, OAuth



Cryptographic Tools: OpenSSL, GPG, PGP, Hashcat



Languages: Python, C++, Java, MATLAB, SQL



Version Control: Git, GitHub, Bitbucket



Operating Systems: Linux, Windows, macOS



Security Standards: FIPS 140-2, NIST SP 800-53, GDPR, ISO/IEC 27001



Key Management: Public Key Infrastructure (PKI), HSMs (Hardware Security Modules), Key Exchange Protocols

