VISHAL PARIKH

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Highly skilled security engineering leader with over 20 years of experience. Proven track record of success in designing, developing, and implementing innovative security solutions. Expertise in cloud security, encryption, tokenization, and authentication. Strong leadership and communication skills, with the ability to build and manage high-performing teams and influence stakeholders at all levels.

PROFESSIONAL SUMMARY

- Experienced with several leading technology companies, including GEICO, Meta, Robinhood, Thomson Reuters, and Capital One, providing valuable contributions to the security and engineering space. Proven track record of success in leading large-scale enterprise and security programs enhancing the overall security posture of organizations while reducing costs and mitigating risks.
- Bringing a wealth of experience in designing, developing, and implementing innovative security solutions. Created a patented cloud-native security automation and orchestration product and innovative solutions for secure human-to-human authentication and tokenizing and securing sensitive data in the public cloud, demonstrating how to deliver impactful results.
- A proficient leader, capable of building and managing high-performing teams, developing strategic and tactical roadmaps, fostering partnerships, and influencing stakeholders, including C-suite executives, to drive successful security and privacy programs.

PATENTS

- Field level security system for securing sensitive data 11005823
- Methods and Systems for Securing Data in the Public Cloud 10419401, 11171930 and 10819686
- Systems and Method for automating security workflows in a distributed system 11487573
- System and method for reducing authentication delays related to security module processing Application 17/668,317 · Filed Feb 9, 2022
- Utilizing Cloud Service Agnostic Data Encryption Key to Decrypt Encrypted Data Application 18/185,270 - Filed Mar 16, 2023
- System and Method for Generating and Transforming Data Presentation Application 14/513750

EXPERIENCE

GEICO – Sr Director, Engineering
August 2023

- Leading Platform Security Engineering Teams - Encryption/Tokenization, PKI and Secrets Management.
- Focussed on driving technical innovation while continuing to improve overall data security and reduce compliance overhead.
- Spearheaded development of next-generation solutions using open source libraries to save $5M in overall vendor costs and providing comprehensive security for data at rest and in transit.

Meta (Facebook) – Security
May 2022 - August 2023

- As a program lead, I successfully led the transition of payment workload and services processing monthly transactions worth $10 billion from an on-premises data center to a cloud environment. This resulted in significantly reduced PCI compliance efforts and a more scalable and cost-efficient solution, saving $6 million annually.
- I led the implementation of a comprehensive security asset management framework that incorporated a security impact rating system to proactively mitigate top security risks. This initiative helped to enhance the overall security posture and minimize potential security threats.

Robinhood – Director, Security Engineering
May 2021 - May 2022

- As a Security Engineering leader, I provided critical support to enterprise identity, infrastructure security, and cryptography teams.
- Through my leadership, I developed strategic and tactical roadmaps that influenced stakeholders and partners, including C-suite executives. I fostered strong partnerships with business and technology teams to drive security and privacy programs, delivering successful outcomes.
- Successfully led efforts for a passwordless authentication system that uses QR codes to bolster security while ensuring seamless and efficient user authentication. Additionally, I developed an innovative solution for secure human-to-human authentication for out-of-band communications. This reduced the risk of social engineering attacks, specifically vishing, and improved the overall security posture.

Thomson Reuters – Director, Security Software Engineering
November 2017 - April 2021

- As a Team Lead and Technology Lead for Security Engineering teams, my role includes building cloud, software and data lake solutions to support a wide range of ISRM functions and harden public cloud footprint (250+ accounts). I work closely with CISO/CTOs, business leaders, technology leaders, and other stakeholders to champion strategy, design, development, launch, and management of software, cloud, and data engineering initiatives that align with strategic and business objectives.
- I led the effort to consolidate product risk and compliance, making it easier to identify and assess risks, and prioritize investments. I also designed and developed a patent-pending cloud-native secure automation and orchestration product that can execute 20K workflows per minute concurrently, resulting in yearly savings of over $1M.

Capital One - Sr. Manager, Software Engineering
August 2012 – October 2017

- As a Team Lead and Technology Lead for Security Engineering deliverables, I successfully built, mentored, and led a team of skilled software engineers.
- I spearheaded a patented solution for tokenizing and securing sensitive data in the public cloud using AWS, GO, DynamoDB, and Cloud HSM. The FPE FIPS 140-2 compliant REST API-based solution is capable of 150K TPS, significantly reducing PCI scope and eliminating vendor costs of up to $1M annually,
- Additionally, I spearheaded the development of Token Vault, Capital One's proprietary payment virtualization APIs, which revolutionized the ecommerce payments industry. With a focus on PCI compliance, I oversaw all aspects of software, infrastructure, and delivery for this solution.
- I also created supporting utility products around the REST API's for Batch solutions and UI for auditors and analysts, as well as engineered streaming file encryption REST API's for storing sensitive files in the cloud using Go and Cloud HSM. Finally, I developed an innovative Cloud Compliance dashboard that provides daily metrics and compliance reporting of AWS resources, complete with thresholds and alerting capabilities.

Capital One - Application Developer
April 2005 - July 2012

Visa International - Data Warehouse Engineer (Deloitte)
May 2003 - March 2005

EDUCATION
- **MS Computer Science (**University of Illinois)