SHREYAS SRIRAM

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EDUCATION

Johns Hopkins University, Baltimore, MD December 2022
MS, Security Informatics *CGPA: 3.90/4.00*

WORK EXPERIENCE

Robinhood Markets — Menlo Park, CA, USA
Security Engineer II — *March 2024 - Present*

- Implemented a comprehensive Security Maturity Framework, enabling unified visibility into the security posture through streamlined controls and intuitive dashboards; significantly enhanced overall security oversight and operational efficiency
- Executed a strategic risk reduction initiative through meticulous planning and cross-functional collaboration across multiple organizations; achieved in a 75% reduction in AWS accounts in just 2 months with zero service interruptions
- Conducted thorough security assessments of new AI products; uncovered and addressed critical flaws in prompt handling and data protection
- Owned secret scanning initiatives across various pipelines; managed incident response for security events affecting multiple services, coordinating rapid mitigation efforts across team
- Enhanced vulnerability management through innovative dependency tracking, dynamically managing projects and procedural enhancements; resulted in higher patching rates and improved security hygiene

Security Engineer I — *February 2023 - February 2024*

- Led Safety by Design initiative, conducting over 50 reviews in 5 months and uncovering several critical vulnerabilities through rigorous threat modeling and code review
- Designed and implemented metrics and dashboards for real-time visibility into security scanning pipelines; identified and addressed friction points, resulting in a 30% speed up in scan times and accurate reporting
- Enhanced security scanning tools by optimizing CI efficiency, expanding repository coverage, and implementing additional security controls, resulting in substantial improvements to overall security posture

Salesforce — San Francisco, CA, USA
Security Engineer Intern — *May 2022 - August 2022*

- Collaborated with engineering teams to determine critical components in services; performed infrastructure security assessments and design reviews to identify and minimize risks through security controls
- Discovered and investigated a critical bug in an internal security tool; documented a detailed report and proposed a redesign of the algorithm resulting in a 90% reduction in potential security vulnerabilities
- Strengthened cloud security measures by implementing additional checks into existing security assurance tools for AWS infrastructure; resulted in improved security management and informed decision-making
- Executed code refactoring efforts to enhance user experience, reduce bugs, and drive higher usage by teams
- Enhanced the AWS Infrastructure by introducing a feature to monitor security posture over time, enabling comprehensive historical analysis and visibility into changes

Mesh7 Technologies (Acquired by VMWare) — Chennai, India
Software Engineer Intern — *August 2020 - March 2021*

- Researched cyber threat intelligence; designed and implemented microservices to integrate threat feeds for live threat monitoring
- Spearheaded and formulated strategies to achieve a 60% reduction in CI costs through the utilization of custom Docker images and faster build times
- Hardened IAM architecture by developing highly configurable API integration and redefined workflows for better user experience
- Executed in-depth vulnerability assessments on the product API and enforced strict access control policies to proactively reduce security risks

TECHNICAL SKILLS

Development Technologies	Golang, Python, C++, Bash, JavaScript, Bazel, gRPC
Other Tools and Technologies	Git, GitHub Actions, Docker, Kubernetes, AWS
Security Tools and Concepts	Burp Suite, NMap, Wireshark, Metasploit, Semgrep, OWASP Top 10, IAM, Secure coding, Design review, Manual code review, Threat modeling, SSDLC Security automation, Risk management, Security tooling, SAST, SCA, Web Security, Cloud security, Penetration testing, Cryptography