AMANDEEP SINGH VIRDI

Senior Security Engineer – Product Security / Cloud Security / Enterprise Security

📍 Bangalore, India

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SUMMARY

Senior Security Engineer with 8+ years securing cloud-native products across AWS and GCP.
Specialized in threat modelling, DevSecOps, and building security tooling that reduces risk at scale.
Trusted partner to engineering teams, translating security risk into actionable, business-aligned decisions.

CORE SKILLS

Threat Modelling | Product Security | Cloud Security (AWS, GCP)
DevSecOps | Secure SDLC | CI/CD Security | Vulnerability Management
Incident Response | Detection Engineering | Risk Assessment | Security Automation

TECHNICAL SKILLS

Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP)
Programming: Python, Bash, Java
Security Tools: GitHub Advanced Security, Black Duck, Polaris, Rapid7, CrowdStrike, Zscaler
DevOps & Infrastructure: Terraform, Docker, Kubernetes, Git, CI/CD, Datadog, Puppet
Operating Systems: Linux, Windows, macOS

PROFESSIONAL EXPERIENCE

Senior Cyber Engineer – Product & Cloud Security

IKEA — Bangalore, India
Mar 2023 – Present

- Led threat modelling and security architecture reviews for multiple cloud-native services across AWS and GCP, identifying high-risk design flaws early and preventing insecure patterns from reaching production.
- Designed and delivered *ThreatGen*, an AI-driven automated threat modelling platform that standardized risk identification and reduced manual threat analysis effort across engineering teams.
- Implemented automated infrastructure visualization and diagram generation, distributed as a GitHub Action, enabling teams to automatically generate and maintain up-to-date C2-level architecture diagrams directly from source control.
- Embedded security into CI/CD pipelines using security-first workflows to shift vulnerability discovery left and reduce late-stage security findings.
- Developed and scaled the organization's security champions program, enabling product teams to independently identify and remediate security risks.
- Acted as a security advisor to product and platform teams, balancing delivery velocity with security.

Senior Specialist, Security and Compliance – Security Operations

SHL — Gurgaon, India
Feb 2021 – Mar 2023

- Designed, implemented, and operated enterprise security controls protecting a global SaaS environment.
- Improved detection and response efficiency by automating compliance checks, alerting, and reporting using scripts and CI/CD pipelines.
- Integrated security tooling with Jira to improve incident visibility, prioritization, and tracking.
- Implemented Data Loss Prevention (DLP) and cloud app control policies to reduce the risk of sensitive data exposure.
- Conducted security assessments and vendor risk reviews for new tools and platforms.

Operations Engineer – DevOps / Cloud Infrastructure

Placester, Inc. — Remote
Dec 2019 – Feb 2021

- Supported and scaled production cloud infrastructure for a SaaS platform with a focus on reliability and security.
- Maintained infrastructure automation for 200+ servers using Puppet, reducing configuration drift.
- Implemented full-stack monitoring and alerting using Datadog, improving incident detection and response times.
- Developed an internal AWS inventory and asset visibility tool using Python and boto3, improving governance and cost awareness.

Master's Thesis Student / Security Engineer – Security Research & Development

foreseeti AB — Stockholm, Sweden
Jan 2018 – Jun 2018 / Nov 2018 – Jun 2019

- Authored a master's thesis on probabilistic threat modelling for AWS cloud architectures (link).
- Extended securiCAD™ threat modelling capabilities to support AWS cloud environments.
- Designed cloud attack models and probabilistic attack simulations for AWS services.
- Collaborated with engineering teams to translate security research into production-ready tooling.

Graduate Engineer Trainee – IT Operations

HCL Technologies (Client: H&M) — Noida, India
Aug 2014 – May 2016

- Supported enterprise IT environments including Windows systems, Active Directory, SCCM, and Citrix.
- Resolved incidents involving networking, authentication, and application availability.

EDUCATION

Master of Science – Security and Mobile Computing (NordSecMob)
KTH Royal Institute of Technology / Norwegian University of Science and Technology (NTNU)

Bachelor of Technology – Electronics and Communication Engineering
Guru Gobind Singh Indraprastha University

CERTIFICATIONS

- AWS Certified Cloud Practitioner • Nov 2019 ([link](#))
- AWS Certified Solutions Architect - Associate • Sept 2020 ([link](#))
- AWS Certified Security – Specialty • Jun 2021 ([link](#))
- Zscaler Certified Cloud Administrator - Private Access (ZCCA-PA) • Jan 2022
- Zscaler Certified Cloud Administrator - Internet Access (ZCCA-IA) • Jan 2022
- GCP Cloud Digital Leader • Aug 2022 ([link](#))
- GCP Associate Cloud Engineer • March 2024 ([link](#))
- GitHub Advanced Security • April 2025 ([link](#))