

AMANDEEP SINGH VIRDI

amandeepvirdi1992@gmail.com • +91 9717575262 • New Delhi, India

PROFILE

- Solutions-driven IT professional with deep theoretical knowledge and hand-on experience in cloud automation, information security, vulnerability assessment and response, threat modelling, and system operations.
- Experienced in working in cross-functional teams; adept at working in shifts and turning in deliverables in a high-criticality environment of varying daily workload.
- M.S. in Security and Mobile Computing (NordSecMob). Coordinated by Aalto University: first year at KTH Royal Institute of Technology in Stockholm, Sweden; second year at Norwegian University of Science and Technology (NTNU) in Trondheim, Norway.

SKILLS

- Information Security | Cloud Automation | DevSecOps
- Amazon Web Services (AWS), Shell scripting, Python, Java, Linux, Windows, Terraform, Puppet, Git, Datadog, Zscaler, Rapid7, CrowdStrike, Endpoint Protector, ManageEngine

WORK EXPERIENCE

Security Operations Engineer • SHL • Gurgaon, India

Feb 2021 – Present

- Responsible for designing, implementing, and supporting the security controls and software required to protect the company's infrastructure from evolving cybersecurity threats using a variety of tools such as Zscaler, CrowdStrike, Rapid7, Endpoint Protector, ManageEngine, etc.
- Recognizing areas for security improvements, wrote scripts and set up CI/CD pipelines, using Bamboo, for automated compliance and alerting; improved monitoring and reporting of incidents and requests by better integration of disparate tools such as Rootshell Prism and Jira; set up data loss prevention and cloud app control policies to protect company data.
- Reviewed security requirements for new IT solutions and performed security review of new solutions and vendors.

Operations Engineer • Placester, Inc. • Remote

Dec 2019 – Feb 2021

- As a member of the extended operations engineering staff for Placester, provided thorough support and problem resolution for all DevOps-related issues
- Maintained infrastructure automation and delivery using Puppet for 200+ servers; used Monit for process monitoring, management, and alerting; implemented Datadog for full stack metrics and alerting; wrote scripts and launched servers for efficient process and cost optimization.
- Responsible for the maintenance and further development of the 'Placester AWS Inventory Tool'; that used boto3, the AWS SDK for Python, to query the cloud environment and present, using HTML toolkits such as Bootstrap and DataTables, an internal-only website, offering a detailed listing of the company's infrastructure.

Security Engineer • foreseeti AB • Stockholm, Sweden ([link](#))

Nov 2018 – June 2019

Master Thesis Student • foreseeti AB • Stockholm, Sweden ([link](#))

Jan 2018 – Jun 2018

- The primary goal of the thesis project was to adapt and extend securiCAD™ by foreseeti to the AWS (Amazon Web Services) cloud environment. Thesis title: *AWSLang: Probabilistic Threat Modelling of the Amazon Web Services environment* ([link](#))
- Conducted a survey of the AWS domain; compiled a taxonomy of possible attacks on clouds; built a feature matrix that maps the elements of the AWS environment with the assets in securiCAD™ and beyond.
- Keeping my previous work in the field as the foundation, worked with developers from various cross functional teams to write, parse, automate, design the next generation of threat modelling tools.

- Member of the extended IT support staff for H&M, as part of the fixed period employment tenure with HCL in India.
- Provided thorough support and problem resolution for issues related to Windows, network connectivity, and application issues; assisted with troubleshooting of Citrix VDIs (Virtual Desktop Infrastructure) and XenApps, maintenance of the SCCM (System Center Configuration Manager) and the Active Directory.
- Awarded 'Comnet Jewel' as one of the top performers of the entire project thrice within a six-month period.

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

EDUCATION

Master of Science • Security and Mobile Computing (NordSecMob)

2016 – 2018

- Coordinated by Aalto University: first year at KTH Royal Institute of Technology in Stockholm, Sweden; second year at Norwegian University of Science and Technology (NTNU) in Trondheim, Norway.
- Advanced Networking | Internet Security and Privacy | Building Networked Systems Security | Wireless Network Security

Bachelor of Technology • Electronics and Communication Engineering

2010 – 2014

- Four years of studies coordinated by the Guru Gobind Singh Indraprastha University in New Delhi, India.
- Circuits & Systems | Computer Networks | Network Technology | Telecommunication Networks | Mobile Communication

PROJECTS

Research poster: “Protect your Privacy in Big Electrical Data” ([link](#))

Nov 2017

- Presented a research poster titled “Protect your Privacy in Big Electrical Data” at the NordSec2017: Nordic Conference on Secure IT Systems in Tatu, Estonia.
- Conducted a literature review of smart grid communications technology and the use of cloud computing for smart meters; surveyed Cryptonite and the StrongBox model of key management; studied Privacy Preserving Data Mining mechanisms. Offered potential mitigations to privacy concerns of smart meters by using a combination of Searchable Encryption and Privacy Preserving Data Mining.

SOCIAL MEDIA

- LinkedIn: [linkedin.com/in/thatvirdiguy](https://www.linkedin.com/in/thatvirdiguy)
- GitHub: github.com/thatvirdiguy

LANGUAGES

Hindi (native), Punjabi (native), English (fluent), Swedish (intermediate proficiency)