Amandeep Singh Virdi

India

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Summary

• Solutions-driven IT professional with deep theoretical knowledge and hand-on experience in cloud computing, information security, threat detection and 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.
• Apart from the technical skills, I'm an avid blogger with a keen interest in pop culture. I also work as a freelance content writer, when my schedule allows.

Experience

Security Operations Engineer
SHL

Feb 2021 - Present (1 year 2 months +)
• 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, 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, for example; 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

Dec 2019 - Feb 2021 (1 year 3 months)
• 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 and 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 and its intricacies.

Security Engineer
Foreseeti

Nov 2018 - Jun 2019 (8 months)

• Keeping my previous work in the field as the foundation, the primary goal of the project was to develop fully-automated threat modelling solutions for cloud, in particular for Amazon Web Services (AWS).
• Used the Java-syntax heavy MAL (Meta Attack Language) to refine awsLang, leading to more AWS services being modeled in the end product and updates to how MAL is compiled.
• Worked with developers from various cross functional teams to write, parse, automate, design the next-generation of threat modelling tools: securiCAD Vanguard.

Master Thesis Student

Foreseeti

Jan 2018 - Jun 2018 (6 months)

• The primary goal of the project was to adapt and extend securiCAD™ by foreseeti to the AWS (Amazon Web Services) cloud environment.
• 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.
• Used the Java-syntax heavy MAL (Meta Attack Language) to build a new specification, "AWSLang," and wrote extensive test cases to evaluate the domain-specific language and validate the results.

Graduate Engineer Trainee

HCL Technologies

Aug 2014 - May 2016 (1 year 10 months)

• 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 SSCM (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 months period.

Education

KTH Royal Institute of Technology

Master of Science (M.S.), Security and Mobile Computing

2016 - 2018

Studied the Master's program in Security and Mobile Computing (NordSecMob), coordinated by Aalto University. First year of studies at KTH Royal Institute of Technology in Stockholm; second year of studies at Norwegian University of Science and Technology (NTNU) in Trondheim.

Guru Gobind Singh Indraprastha University

Bachelor of Technology (B.Tech.), Electronics and Communications Engineering

2010 - 2014

Studied the Bachelor's program in Electronics and Communication engineering. Worked in various domains; did multiple projects in electronics, robotics and IoT (Internet of Things). Final year project was design and implementation of a Bluetooth controlled home automation system.

Licenses & Certifications

AWS Certified Solutions Architect – Associate - Amazon Web Services (AWS)
Issued Sep 2020 - Expires Sep 2023

AWS Certified Cloud Practitioner - Amazon Web Services (AWS)
Issued Nov 2019 - Expires Sep 2023

AWS Certified Security – Specialty - Amazon Web Services (AWS)
Issued Jun 2021 - Expires Jun 2024

Zscaler Certified Cloud Administrator - Private Access (ZCCA-PA) - Zscaler
Issued Jan 2022 - Expires Jan 2024
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Zscaler Certified Cloud Administrator - Internet Access (ZCCA-IA) - Zscaler
Issued Jan 2022 - Expires Jan 2024
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Skills

Amazon Web Services (AWS) • Shell Scripting • Python (Programming Language) • Puppet •
Terraform • Git • Linux • Datadog • Zscaler Cloud Security • Cybersecurity