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**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

**School of Computer Science Engineering & Information Systems**

**Department of Software and Systems Engineering**

**M.Tech Software Engineering**

**SWE3099-Industrial Internship**

**INDUSTRIAL INTERNSHIP DIARY**

**Reg. no. : 20MIS0401**

**Name of the student : THILAKRAJ C**

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**Period of training : From :- 11 May To 24 June**

**Name of internal guide : Dr.Kalaivani S**

**Name of external guide : Harsh chhabra**

**Contact Details : 9212517527**

**Name of the industry : Etrain Education Pvt. Ltd**

**Company Address : 1211,12<sup>th</sup> Floor Hemkunt Chambers 89,New Delhi**



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**Day 1**

**(May 11, 2023):**

**Task to be done:** Begin Microsoft Certified: Security, Compliance, and Identity Fundamentals course.

**Task done for that day:** Introduction to the importance of the curriculum and core security concepts.

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**Day 2**

**(May 12, 2023):**

**Task to be done:** Dive deeper into security concepts and threat landscape.

**Task done for that day:** Explored evolving threat landscape, including malware and phishing.



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**Day 3**

**(May 13, 2023):**

**Task to be done:** Learn about Identity and Access Management (IAM).

**Task done for that day:** Introduction to IAM and authentication methods.

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**Day 4**

**(May 14, 2023):**

**Task to be done:** Continue with IAM and dive into compliance.

**Task done for that day:** Hands-on Azure AD lab and overview of regulations.

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**Day 5**

**(May 15, 2023):**

**Task to be done:** Explore data protection and security auditing.

**Task done for that day:** Covered data protection and security auditing mechanisms.



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**Day 6**

**(May 16, 2023):**

**Task to be done:** Study network security threats and Azure Sentinel.

**Task done for that day:** Explored network security threats and introduced Azure Sentinel.

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**Day 7**

**(May 17, 2023):**

**Task to be done:** Continue with security monitoring and incident response.

**Task done for that day:** Discussed security monitoring and policies.

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**Day 8**

**(May 18, 2023):**

**Task to be done:** Delve into risk management and threat modeling.

**Task done for that day:** Covered risk management and threat modeling.



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**Day 9**

**(May 19, 2023):**

**Task to be done:** Learn about Secure Score in Azure.

**Task done for that day:** Explored Secure Score and secure design principles.

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**Day 10**

**(May 20, 2023):**

**Task to be done:** Explore different compliance requirements.

**Task done for that day:** Discussed compliance requirements and Azure Policy.

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**Day 11**

**(May 21, 2023):**

**Task to be done:** Cover encryption techniques and identity protection.

**Task done for that day:** Examined encryption techniques and identity protection.

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**Day 12**

**(May 22, 2023):**

**Task to be done:** Learn about security in Microsoft 365 and role-based access control.

**Task done for that day:** Covered security in Microsoft 365 and RBAC.

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**Day 13**

**(May 23, 2023):**

**Task to be done:** Explore threat intelligence and secure email.

**Task done for that day:** Discussed threat intelligence and secure email.

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**Day 14**

**(May 24, 2023):**

**Task to be done:** Delve into identity synchronization and Azure resources.

**Task done for that day:** Explored identity synchronization and NSGs.

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**Day 15**

**(May 25, 2023):**

**Task to be done:** Study security and compliance in Microsoft Teams.

**Task done for that day:** Covered security in Microsoft Teams and the principles of zero trust security.

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**Day 16**

**(May 26, 2023):**

**Task to be done:** Learn about Microsoft Intune and Azure Information Protection.

**Task done for that day:** Explored Microsoft Intune and Azure Information Protection.

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**Day 17**

**(May 27, 2023):**

**Task to be done:** Cover security in Azure Key Vault and regulatory compliance.

**Task done for that day:** Examined Azure Key Vault and regulatory compliance.

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**Day 18**

**(May 28, 2023)**

**Task to be done:** Explore cloud identity solutions and disaster recovery.

**Task done for that day:** Learned about cloud identity solutions and disaster recovery.

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**Day 19**

**(May 29, 2023)**

**Task to be done:** Study access control and governance in Azure.

**Task done for that day:** Discussed access control and governance in Azure.

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**Day 20**

**(May 30, 2023)**

**Task to be done:** Learn about secure DNS and the Shared Responsibility

**Model.**

**Task done for that day:** Explored secure DNS and the Shared

Responsibility Model.



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**Day 21**

**(May 31, 2023)**

**Task to be done:** Study security in Azure App Service and DevOps.

**Task done for that day:** Covered security in Azure App Service and secure DevOps practices.



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**Day 22**

**(June 1, 2023)**

**Task to be done:** Learn about Azure Security Center and Azure Monitor.

**Task done for that day:** Explored Azure Security Center and Azure Monitor.

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**Day 23**

**(June 2, 2023)**

**Task to be done:** Explore Azure Bastion and network security.

**Task done for that day:** Discussed Azure Bastion and network security.

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**Day 24**

**(June 3, 2023)**

**Task to be done:** Cover container security and Azure Firewall.

**Task done for that day:** Examined container security and Azure Firewall.

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**Day 25**

**(June 4, 2023)**

**Task to be done:** Study security in Azure Kubernetes Service and incident response.

**Task done for that day:** Explored security in Azure Kubernetes Service and incident response planning.



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**Day 26**

**(June 5, 2023)**

**Task to be done:** Learn about threat protection in Microsoft 365 and Azure AD B2B/B2C.

**Task done for that day:** Discussed threat protection and Azure AD B2B/B2C.

**Day 27**

**(June 6, 2023)**

**Task to be done:** Explore Azure Policy and security alerts.



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**Task done for that day:** Learned about Azure Policy and managing security alerts.

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**Day 28**

**(June 7, 2023)**

**Task to be done:** Study Azure Blueprints and security assessment.

**Task done for that day:** Explored Azure Blueprints and security assessment.

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**Day 29**

**(June 8, 2023)**

**Task to be done:** Learn about security in Azure IoT solutions and GRC frameworks.  
**Task done for that day:** Covered security in Azure IoT solutions and GRC frameworks.

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**Day 30**

**(June 9, 2023)**

**Task to be done:** Explore security in Azure Databases and serverless computing.

**Task done for that day:** Examined security in Azure Databases and serverless computing.



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**Day 31**

**(June 10, 2023)**

**Task to be done:** Learn about advanced threat protection and secure application access.

**Task done for that day:** Discussed advanced threat protection and secure application access with Azure AD Application Proxy.





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**Day 32**

**(June 11, 2023)**

**Task to be done:** Cover Azure Security and Compliance Center and Azure Container Registry.

**Task done for that day:** Examined Azure Security and Compliance Center and securing container images.

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**Day 33**

**(June 12, 2023)**

**Task to be done:** Explore Azure Sphere and Secure DevOps.

**Task done for that day:** Explored Azure Sphere and Secure DevOps practices in a containerized environment.

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**Day 34**

**(June 13, 2023)**

**Task to be done:** Learn about the importance of security and compliance training.

**Task done for that day:** Covered identity protection with Azure AD Identity Protection.

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**Day 35**

**(June 14, 2023)**

**Task to be done:** Explore challenges and strategies for securing data in a multi-cloud environment.

**Task done for that day:** Discussed securing privileged identities in Azure AD Privileged Identity Management.

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**Day 36**

**(June 15, 2023)**

**Task to be done:** Discuss security considerations for hybrid cloud environments.

**Task done for that day:** Explored secure network architectures and virtual network peering in Azure.

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**Day 37**

**(June 16, 2023)**

**Task to be done:** Cover the fundamentals of Azure Sentinel for threat detection and response.

**Task done for that day:** Examined threat intelligence sources and the importance of threat data feeds.

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**Day 38**

**(June 17, 2023)**

**Task to be done:** Learn about Azure Security Center's continuous monitoring and security assessments.

**Task done for that day:** Explored security and compliance considerations for cloud-based applications.

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**Day 39**

**(June 18, 2023)**

**Task to be done:** Discuss container security, including container orchestration in Azure.

**Task done for that day:** Covered Azure Security and Compliance Blueprints for standardized compliance configurations.





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**Day 40**

**(June 19, 2023)**

**Task to be done:** Examine best practices for securing Azure VMs.

**Task done for that day:** Explored data classification and labeling in

Microsoft 365.



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**Day 41**

**(June 20, 2023)**

**Task to be done:** Discuss identity and access management for Azure services and resources.

**Task done for that day:** Covered the principles of security, privacy, and compliance in Azure Cognitive Services.



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**Day 42**

**(June 21, 2023)**

**Task to be done:** Explore securing applications in Azure.

**Task done for that day:** Examined best practices for securing and managing secrets in Azure.

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**Day 43**

**(June 22, 2023)**

**Task to be done:** Discuss Azure AD B2B and B2C for business-to-business and business-to-customer scenarios.

**Task done for that day:** Explored the importance of incident response planning in cybersecurity.

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**Day 44**

**(June 23, 2023)**

**Task to be done:** Cover the principles of threat modeling and its application in identifying security vulnerabilities.

**Task done for that day:** Discussed advanced identity protection strategies and Azure AD Conditional Access.

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**Day 45 (June 24, 2023 - Exam Day)**

**Task to be done:** Review and Revision: Dedicate the day to revising all the course materials.

**Task done for that day:** Successfully completed the certification exam with a score of 903 /1000, demonstrating a deep understanding of security, compliance, and identity fundamentals.

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