# Divyesh Tharakan

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## PROFESSIONAL SUMMARY

Result-oriented Software Engineer with two years of experience in **AWS** and **Cloud Security**. Skilled in **Python**, **Java**, and **AWS**, with expertise in developing secure and robust software solutions, enhancing security through process automation, and monitoring production-level API logs and configurations. Passionate about Cybersecurity, Threat Intelligence and Security Automation.

## EDUCATION

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|---|---|
| **Master of Technology, Information Security** | **July 2024-May 2026** |
| Vellore Institute of Technology, Vellore, Tamil Nadu | CGPA: 8.73/10 |
| **Bachelor of Technology, Computer Science and Engineering** | **Aug 2018-May 2022** |
| MIT Arts, Design and Technology University, Loni Kalbhor, Pune | CGPA: 8.02/10 |

## SKILLS

**Programming:** Python, Java                    **Machine Learning:** Pandas, NumPy (Basic)
**Threat Detection & Monitoring:** Splunk, SIEM
**Cloud & Network Security:** AWS Security Hub, Zero Trust Architecture, Web Application Firewalls
**Identity & Access Management (IAM):** Multi-Factor Authentication (MFA), Role-Based Access Control (RBAC)
**Application & Endpoint Security:** OWASP Framework
**Penetration Testing & Ethical Hacking:** Kali Linux, Metasploit, Nmap, Hydra, Burp Suite, Wireshark
**Data Framework:** SQL, MongoDB, Microsoft Excel
**Version Control & Collaboration**: Git, GitHub, Confluence

## WORK EXPERIENCE

**Software Engineer,  Persistent Systems,** *Pune, India*                    **Jul 2022-Jun 2024**

- Streamlined onboarding, reducing time by **20%**, and increased documentation usage by **45%**, enhancing knowledge-sharing within the team.
- Decreased recurring database errors by **40%** and reduced Mean Time to Resolve (MTTR) by **25%** using proactive log analysis.
- Increased deployment success rate by **15%** and improved system throughput by **30%** through efficient architecture.
- Cut query latency by **30%** and improved alert response time by **30%**, enhancing operational efficiency.
- Reduced onboarding time by **20%** and boosted documentation usage by **45%** within the team.
- Consistently delivered projects within deadlines, ensuring strong client satisfaction.

**Software Engineering Intern, Persistent Systems,** *Pune, India*                    **Jan 2022-Jun 2022**
- Utilized SIEM for **security monitoring**, improving **threat detection** efficiency and reducing false positives.
- Assisted in **incident triage** and **root cause analysis**, reducing **incident response time by 15%**, ensuring faster containment and mitigation of security threats.
- Ensured compliance with **security policies** and **GRC frameworks**, improving **reporting efficiency by 25%**, streamlining risk assessment and security posture enhancements.

## PROJECTS

**Training and Placement Management Desktop Application | Tech Stack:** Java, Eclipse IDE, MySQL
- Developed a Java-based desktop application in Eclipse IDE to automate biodata collection and streamline student placements.
- Implemented secure login with OTP, Forgot Password, and role-based access, allowing students to update biodata and download PDF reports.
- Integrated MySQL for data storage, enabled job and internship applications, and added text field filters for precise data retrieval.

**Car Damage Detection | Tech Stack:** Python, Mask R-CNN, Scikit-Learn
- Led a team in developing an automated car damage detection system using Mask R-CNN.
- Achieved 92% accuracy in pixel-level damage segmentation across 10,000+ images; and 82% accuracy in Classification of damage.
- Streamlined claim assessment, leading to a remarkable 65% reduction in processing time and heightened operational efficiency

**Power-BI-HR-Workforce-Analysis | Tech Stack:** PowerBI, Python, SQL, Excel
- Analyzed HR workforce data to identify key factors (e.g., demographics, job roles, satisfaction, compensation) affecting employee retention and performance.
- Leveraged insights to recommend HR policy improvements, predict attrition trends, and boost employee engagement and productivity.

## CERTIFICATIONS

- **AWS Certified Cloud Practitioner (CLF - C01) Exam – Issued: Aug 2023**
- Introduction to Security Information and Event Management (LinkedIn Learning)
- AWS Administration: Security Fundamentals (LinkedIn Learning) – **Ongoing**
- Junior Penetration Tester (TryHackMe) - **Ongoing**