

Information Security Internship Assignment

About Mitt Arv

Mitt Arv, which translates to ‘**My Legacy**’ in Swedish, is an innovative legacy-tech startup on a mission to transform the way we approach end-of-life planning. Our primary goal is to empower individuals to proactively plan for the future, encompassing not only the practical aspects like listing and sharing assets but also the critical dimension of emotional well-being. We’re on a journey to challenge and eliminate the existing stigma surrounding conversations about death.

Our Vision

Mitt Arv envisions a future where no one is left in financial or emotional chaos on the passing away of a loved one.

Our Genesis

The testing COVID times saw unexpected losses for almost everyone on this planet. We realised how fragile life is! Our founder, Vishal, had to rush back to India from Singapore during the delta wave due to the COVID-19 hospitalisation of his mother. At the same time, Vishal’s B-School batchmate passed away, leaving behind a 2-year-old daughter, and Vishal, having a son who was just 6 months old then, had a tremble down his spine. But Vishal is not alone. Many such stories move the toughest into a flurry of emotion. These tough times are what led to the birth of “Mitt Arv” and saw the inception of the products – Emotional Will, Asset Vault, Doc Keep, and Time Capsule.

Our Hiring Philosophy

At Mitt Arv, we believe in nurturing talent from its budding stages, recognizing the potential that lies within each individual. Hence, at entry level, an internship is the only way to join as a Full-Time Employee at Mitt Arv. Our recruitment process is designed to assess candidates based on their skills, knowledge, intent, commitment, and adaptability.

Our company recognises that employee retention is critical to our success. We provide competitive stipends & salaries, benefits, and opportunities for growth and development. We offer a supportive environment that promotes work-life balance. We conduct regular performance reviews and provide employees with feedback on their performance, goals, and development needs. We work with employees to create plans that help them achieve their career goals.

To simplify onboarding and training, we have introduced a Cohort-based hiring system, where we hire interns across different teams together. The 3rd cohort will start on the 1st of March, 2024, and it is mandatory for you to join us, if selected, on the 1st of March, 2024.

Internship Structure

Internship Training Period: This lasts for **4 to 6 weeks**, depending on your *performance, intent, ability, and dedication*. If you are unable to complete your internship 'Training Period' within 6 weeks, we will **not be able** to continue our association with you thereafter.

Post-Training Internship: The total internship period, including training, lasts for a **minimum of 4 months**. This duration is **mandatory** to be eligible for an FTE, PPO offer, or **even an internship certificate**. If you haven't yet completed your graduation or are not in your final year of graduation yet, we offer an 'intern till you graduate' program, where you can intern with us until you complete your graduation.

Meanwhile, if you are a non-final year student selected for this internship, we can onboard you remotely **but** you will have to spend your mid semester breaks in our Hyderabad office till you complete **3 months in aggregate**, to be eligible for an Internship certificate. Thereafter, to be eligible for a PPO or FTE offer, you have to spend 4 continuous months of your final year working from our Hyderabad office.

Internship Location and Office Timings

You must spend the entire internship time working from our Hyderabad office, except for times where you need to go on partnership visits. Our office is open from 10 AM - 7 PM and operates from Monday to Friday. If you are in your non-final year, the Internship Structure clause applies.

Stipend Structure

Our stipend structure is competitive yet uniquely designed. You will learn more about our work ethic, teams, processes, expectations, etc. during your internship 'Training Period'.

During this training period, you would be provided a stipend of INR 5000 / month. Once the training period is completed, your stipend will be increased to INR 10,000 / month + incentives. The stipend would be paid within the first 5 days of the subsequent month.

Full-Time Employment or Pre-Placement Offer

Based on your performance during the internship, and finding a mutual fit for working together, Mitt Arv will offer a Full-Time Employment or a Pre-Placement Offer in the range of 4 LPA to 8 LPA.

Relocation Assistance

If you reside outside of Hyderabad and are relocating for the internship, you will be provided with reimbursement for up to 2AC return tickets to and from your base location. Additionally, you will also be provided with additional INR 6,000 monthly on a prorated basis to assist with additional costs. We will be able to support your stay at a nearby guest house but the costs will have to be borne by you if you choose to opt for them.

Roles & Responsibilities

- **Risk Assessment:** Identify and assess potential risks to information assets, evaluating vulnerabilities through regular assessments.
- **Security Policy Development:** Develop, implement, and enforce information security policies, ensuring alignment with industry regulations and standards.
- **Incident Response:** Develop and maintain an incident response plan, responding to security incidents, breaches, and vulnerabilities through thorough investigations.
- **Certification Ownership:** Own the Safebase portal of Mitt Arv and deliver end to end compliances required to get necessary Information security certifications
- **Access Control:** Manage user access and permissions to uphold the principle of least privilege, implementing and overseeing robust identity and access management systems.

ASSIGNMENT

We heavily rely on processes and guidelines as we work. One core aspect of any good Information Security team is to understand the requirements, so please go through the below requirements thoroughly. Any major miss in complying to the guidelines for submission, subject of email etc will automatically disqualify your application.

Assignment Submission Instructions

Your submissions for the assignment details laid out below should be sent via email to careers@mittarv.com with the following guidelines:

- Email Subject Format: “<Your Name> – Application for Information Security Internship for March 2024”
- All submissions must be in the form of a pdf attachment OR URLs with public access enabled.
- Each attachment should have a filename “<Your Name> – Information Security Internship Assignment Attachment <x> of <y>”
- Kindly abide by the deadline mentioned in the Job Post on Internshala.

Assignment Details

As Mitt Arv is in Beta Phase, we are inviting you to try and highlight the security vulnerabilities which are present. As part of this you will be required to submit a video highlighting any vulnerabilities you find. The app is only available on Android currently and you can use the referral code **2402ASMT** to register on the app.

This assignment will cover various aspects of security testing, including penetration testing, code review, and vulnerability assessment.

1. Vulnerability Assessment:

- Utilise automated tools to perform a vulnerability assessment on the application.
- Identify and categorise vulnerabilities, and prioritise them based on severity.
- Validate the findings to eliminate false positives.

2. Threat Modelling:

- Identify and document potential threats to the Mitt Arv application.
- Prioritise the threats based on their impact and likelihood.

3. Penetration Testing:

- Conduct a penetration test on the Mitt Arv application to identify vulnerabilities.

- Focus on both external and internal penetration testing.
- Provide a detailed report of the identified vulnerabilities, including their severity and potential impact

4. Authentication and Authorization Assessment:

- Evaluate the effectiveness of authentication mechanisms in place.
- Identify and mitigate any weaknesses in authentication and authorization

5. Data Protection and Privacy Assessment:

- Evaluate how sensitive data is handled and protected within the application.
- Ensure compliance with data protection regulations.
- Identify and address any privacy-related concerns

Deliverables:

- Comprehensive report detailing the findings from each task.
- Prioritised list of recommendations for mitigating identified vulnerabilities.
- (Optional) Documentation of any changes made to address the identified issues.

Grading Criteria:

1. The assignment will be graded based on the thoroughness of the assessment, the quality of the findings, and the effectiveness of proposed solutions. Extra credit may be given for innovative approaches to identifying and mitigating vulnerabilities.
2. Documentation of minimum 2 areas is required for the assignment to be qualified for evaluation

Note:

1. Please adhere to ethical hacking practices