

Development and Support for Security Testing Training

Opportunity for an apprenticeship or a 6-month internship

Security Testing @ SAP Labs France
Sophia-Antipolis – France

As market leader in enterprise application software, SAP helps companies of all sizes and industries run better. From back office to boardroom, warehouse to storefront, desktop to mobile device – SAP empowers people and organizations to work together more efficiently and use business insight more effectively to stay ahead of the competition.

PURPOSE AND OBJECTIVES

Part of the board area Products and Innovation and the SAP Global Security team, the Security Testing team provides central services and infrastructure supporting the SAP Secure Software Development Lifecycle (Secure SDL). Together with the colleagues working in Security Validation and Security and Dependency Analysis team it has the mission to provide consistent 'state of the art' services and tools for the three phases of the Secure SDL: SAP development, testing and validation. The goal is to enable developers to create secure and simple products.

The team is responsible for the definition, selection, testing, configuration and/or development of security testing tools (both static and dynamic) as well as building own tools. The team also provides central educational and consulting to enable development programs to use the tools efficiently and carries out research projects in white spot areas.

INTERNSHIP TOPIC

The internship will take place in the context of the security testing training delivered in SAP worldwide. The scope of this internal training is to present an overview of the security testing strategy, describing the security testing tools (Fortify, Checkmarx, Web Inspect, Zap) and giving to any SAP developer some best practices and recommendations to follow.

In this context, the tasks of the internship/apprenticeship will be diverse:

- Development and Maintenance of the Training automation application

This application aims at automating the training environment of the participants (contact with the participants/creation of the technical environment/statistics)

There is already a first version of the application, the role of the intern/apprentice will be to improve and add new features on this application.

- Maintenance and Extension of the vulnerable application used during the training

The training material is based on a vulnerable application developed by our team made of different components (Java, JavaScript, C) and two mobile applications (Android, Cordova).

- Support for the training organization

In order to prepare a training session, the team has to create and test the technical environment, check that the training environment for each tool has been cleaned, test/improve the training exercises. The intern will support the team during these tasks.

The intern will be directly in contact with experts from different areas like pentesters, static and dynamic tools experts and tools consultants and he/she will gain expertise in the area of static and dynamic security analysis. The intern will work mainly on development tasks. However, he/she should be flexible in order to tackle diverse type of tasks (like support, testing, design and communication).

CANDIDATE PROFILE

In addition to a strong scientific and technical background, the position requires strong problem-solving capabilities with the ability to communicate effectively. The ideal candidate will have/be:

- Good technical/development skills
- Knowledge in JavaScript and Node.js, Java, HTML and CSS.
- Willingness and proven ability to quickly acquire development proficiency in new technologies
- Fluent in English (working language)
- Good oral and written communication skills
- Knowledge of SAP environment is a plus (e.g. Monsoon)
- Knowledge in Security is a plus

STANDARD INTERNSHIP PACKAGE

- *Salary*: depending on the length of the internship and your diploma.
- *Lunch*: SAP Labs France has a local cafeteria; interns contribute 2,40 €uro/lunch, like other SAP employees.
- *Holidays*: French Bank Holidays
 - January 1st; April 2nd, May 1st, May 8th, May 10th, May 21st, July 14th; August 15th, Nov 1st and 11th; December 25th
- *Travel*: no trip will be paid by SAP.
- *Accommodation*: SAP can propose an accommodation for the duration of your internship. The accommodation is subsidized by SAP: the intern pays half of the rental cost: 342€ for a 1-room apartment or 442€ for a 2-room apartment (Choice depending on the availability).

CONTACTS AND PROCEDURE

Please send **in English** your CV, a cover letter and any relevant documents to the following persons stating the title of the Internship in the subject: [Internship Application] **Development and Support for Security Testing Training**

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