Jyoti Shailesh Zagade

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ABOUT ME

A seasoned IT professional with over 17 years of experience, including more than 10 years specializing in web application security, vulnerability assessments, and penetration testing. Currently serving as a Project Engineer at C-DAC, with expertise in the Software Testing Life Cycle (STLC) within both Agile and Waterfall frameworks.

Proficient in conducting security assessments for web applications, Android apps, and web services, using manual and automated tools such as Kali Linux, Burp Suite, Web Inspect and OWASP Zap. Skilled in executing a range of application-level attacks (XSS, SQL Injection, CSRF), with strong knowledge of security frameworks like OWASP Top 10, CWE/SANS Top 25 and NIST standards. Additionally, experienced in formulating Security audits, training, testing plans, process documentation, and coordinating across multiple teams.

Well-versed in security training and raising organizational security awareness, contributing to improved security metrics and reporting.

SKILLS

- **Testing Methodologies**: Skilled in web application security testing, vulnerability assessments, and penetration testing (VAPT) using both Static (SAST) and Dynamic (DAST) testing methods.
- **Programming Languages:** Java, JavaScript, SQL, HTML, CSS
- **Tools & Technologies:** Jira, Git, Jenkins, Maven, Jaspersoft
- **Database Technologies**: Expertise in SQL Server 2005 and MySQL, with a focus on database security, query optimization, and data protection.
- **Operating Systems**: Extensive experience with Kali Linux, Windows, and Android for security testing and app deployment.
- **Web Servers**: Skilled in configuring and securing Apache Tomcat for better performance and protection against threats.
- **Testing Tools**: Proficient in Mercury Quality Center for test management and using bug tracking tools to manage and resolve issues.
- **Web Application DAST Tools**: Advanced knowledge of DAST tools like Burp Suite Pro, OWASP ZAP, Acunetix, Netsparker, Nmap, and SQLMap for vulnerability scanning.
- **Web Application SAST Tools**: Expertise in SAST tools like IBM AppScan, Burp Suite Pro, and SonarQube to detect security flaws during development.
- **Web Services**: Experience in testing web services using tools like SOAP UI, Rest Client, and POSTMAN to ensure secure APIs and data protection.
- **Mobile Application Security Tools**: Proficient in mobile security testing with tools like Android Studio, Apktool, Dex2jar, and Burp Suite, focusing on protecting mobile apps from threats.

WORK EXPERIENCE

Center for Development of Advance Computing (cdac.in)   **May, 2007 – Present**
Project Engineer   *Pune, India*

- Requirement Gathering, Analysis, Design of Solution.
- Planning all the tasks and activities, relevant milestones and assigning it to project resources to complete within specified time frames.
- Co-ordination with the client to ensure that the requirements and acceptance criteria are satisfactorily captured by application.
- Reviewing code to ensure coding standards are followed.
- Reviewing project timelines, tracking and reporting defects, and keeping senior management updated on testing progress.
- Creating test strategies and plans for projects, and reviewing requirements, designs, test strategies, and test cases.
- Preparing and presenting reports that address issues in IT systems and projects.
- Performing security audits, vulnerability testing, and various types of testing like functional, GUI, integration, and regression testing.
- Creating and submitting vulnerability assessment and penetration testing (VA/PT) reports to clients.

- Managing security audits and penetration tests using NIST, SANS, and OWASP standards.
- Handling security threats like XSS and SQL attacks on web applications, and providing solutions for vulnerabilities.
- Ensuring security assessments are done before and after a project goes live.
- Developing proof-of-concept solutions for security issues, and training the development team on secure coding and fixes for critical vulnerabilities.
- Completed a successful third-party security audit for over 20+ web applications and 5 mobile applications.

PROJECTS

1. Project Management
Duration : August 2021 to Till Date
Project:
   I.   Works and Account Management Information System (Bihar)
   II. Financial Accounting System (KRCL)
Roles and Responsibilities :
- Successfully delivered solutions, ensuring seamless integration with client requirements and acceptance criteria for financial operations.
- Planned tasks, milestones, and allocated resources effectively to deliver the project on schedule and within budget.
- Conducted detailed code reviews to enforce adherence to coding standards promoting robust and maintainable software development.
- Successfully interpreted client and business requirements to deliver customized solutions catering to the specific needs of the financial accounting system.
- Finalized product specifications and selected appropriate methodologies contributing to the successful implementation of the system.
- Actively participated in departmental meetings conducting gap analysis to ensure alignment between project deliverables and client expectations.
- Reviewed meeting minutes (MOM) and change request documents diligently, contributing to effective project management and stakeholder communication.

2. Application Security Management
Duration : January 2013 to Till Date
Project:
   I.   Works and Account Management Information System (Bihar)
   II.   Financial Accounting System (KRCL)
   III. Employees' Provident Fund Organization (EPFO)
   IV.   Electronically Transmitted Postal Ballot System (ETPBS)
   V.   Works and Account Management Information System (WAMIS)
   VI.   Public Works Department - Tripura, Meghalaya & Jharkhand
   VII. WRD Maharashtra
   VIII. Online Management Monitoring & Accounting System (OMMAS)
   IX.   Mukhya Mantri Gram Sadak Yojana (MMGSY)
   X.   Funds and Accounts Management System (FAMS)
   XI.   Maharashtra Industrial Development Corporation (MIDC)
   XII. Karnataka Valuation and e-Registration (KAVERI)
   XIII. Kaveri Online Services (KOS) and PRDE

Roles and Responsibilities :
- Led security assessments and implemented robust security measures for Web, Mobile Applications and Web Services .
- Managed the security assessment life-cycle, including planning, execution, and detailed reporting, to proactively identify and mitigate potential
- Achieved a 80% reduction in vulnerabilities through the implementation of advanced security measures.
- Led requirement gathering, analysis, and solution design, integrating security considerations throughout the software development life-cycle
- Conducted rigorous code reviews to enforce adherence to coding standards.

- Conducted rigorous code reviews to enforce secure coding standards, promoting the development of reliable and secure applications..
- Successfully collaborated with testing and development teams to ensure compliance with testing requirements, facilitating seamless integration of security measures.
- Provided expert guidance in analyzing business and system requirements, conducting test planning and execution, and managing defect tracking and resolution.
- Monitored project timelines, documented defects, and provided regular status updates to senior management, ensuring transparency and communication.
- Designed comprehensive test strategies and executed test plans, encompassing functional, GUI, integration, regression, and security testing for high quality software delivery.
- Developed and submitted detailed Internal and External Vulnerability Assessment & Penetration Testing (VA/PT) reports to clients.
- Managed Security Audits and Penetration Testing in alignment with NIST, SANS, and OWASP standards.
- Developed Proof of Concepts (POCs) to address security issues identified during assessments, and conducted training sessions for development teams on secure coding practices and remediation strategies for critical and high-severity issues.
- Developed and maintained comprehensive security documentation, including VA/PT reports and process guidelines, to ensure ongoing security compliance and readiness.

3. **Database Management**
   Duration: January 2011 to 2012
   Projects:
   I.   Bug Tacking System (BTS)
   II. Stamps and Registration Software (GOA)
   III. Karnataka Valuation and e-Registration (KAVERI)

   Roles and Responsibilities:

- Designed and developed a Bug Tracking System (BTS) using VB programming, streamlining bug reporting and resolution processes.
- Managed databases for the BTS, Stamps and Registration Software (GOA), and Karnataka Valuation and e-Registration (KAVERI) applications using MS • SQL Server 2000/2005, ensuring data integrity and client data management.
- Utilized Jasper Reports to generate comprehensive reports, providing valuable insights and facilitating data-driven decision-making.
- Prepared detailed Software Requirement Specifications (SRS) and user manuals for the BTS, ensuring clarity and ease of use for end-users.
- Conducted user training sessions, providing comprehensive support for the BTS application, and ensuring successful adoption and utilization.

4. **Software Developer**
   Duration: May 2007 to 2010
   Projects:
   I.   Stamps and Registration Software (GOA)
   II. Karnataka Valuation and e-Registration (KAVERI)

   Roles and Responsibilities :

- Requirement Analysis & Application Development: Understanding user requirements, designing, and developing applications.
- Software Update & Enhancement: Enhancing and updating the Society and Marriage registration software using VB programming, Jasper reports and MS SQL Server 2000/2005 based on gathered requirements.
- Documentation: Preparing and updating SRS and user manuals for modules such as Society Registration, Marriage Registration, Notary Registration, and EC-Nil EC Search modules as per new requirements.
- User Training & Onsite Support: Conducting training sessions and providing onsite support for registration applications, resolving issues related to KAVERI and GAURI applications.

EDUCATION

Pune University	**June, 2006**
Post Graduation Diploma in Advance Computing	*Pune, India*

Pune University	**June, 2005**
Bachelor of Engineering (Electronics)	*Pune, India*

CERTIFICATION

Certified Ethical Hacker (CEH)	**2018**
ISO 9001:2015	**2017**