

A Detailed Evaluation of SQL Injection Attacks, Detection and Prevention Techniques

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Abstract—An SQL Injection attack is a database focused attack for programmes that utilize data. It is accomplished by inserting malicious lines of code into the SQL query to alter and modify its meaning, allowing the attacker to gain access to the database or retrieve sensitive data. Many strategies for detecting and preventing such assaults have been developed and suggested. This study provides an in-depth examination of 38 publications on approaches for detecting SQL Injection in web applications. This offers a foundation for designing and using efficient SQL Injection, detection and prevention techniques.

Keywords—SQL injection attacks, SQLi detection, SQLi mitigation, SQLi prevention, Web-application attacks, database attacks.

I. INTRODUCTION

Structured Query Language (SQL) is a standardized programming language used to manage relational databases and perform various operations on the data in them. It employs statements, which are groups of keywords used to obtain data from databases.

It would take substantially longer to find the data you want if you navigated a huge database without SQL. Instead of spending a great amount of time searching manually, you can use the SELECT statement to immediately locate datasets that fulfil all of the conditions of your search. The INSERT statement inserts new data into tables. Existing records can be deleted using the DELETE command. To create a new database in your database management system, we use CREATE DATABASE command and it is the initial step in setting up your database. Similarly, after the database has been formed, the CREATE TABLE command generates a new table. The UPDATE statement modifies one or more database records.

SQL is anticipated to be used in applications like Spotify, Revolut, banking apps, and other social networking sites like Twitter and Instagram, in addition to Facebook. DDL (Data Definition Language), DML (Data Manipulation Language),

DCL (Data Control Language), and DQL (Data Query Language) are the four different types of SQL commands that make up the language.

A hacker will use SQLi to try to input specially designed SQL queries into a form field instead of the desired data [1]. The goal is to get a response back from the database that will aid the hacker in comprehending how the database is made, such as table names. Fig. 1 illustrates how the offline training step and the online testing stage are crucial components of the SQLi detection approach.

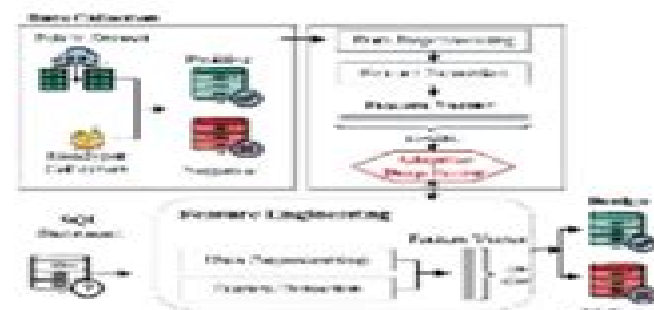


Fig. 1. SQL Model Execution and Application [2]

Huang and colleagues [3] recommend WAVES, a black-box technique, for analysing web applications for SQLi vulnerabilities. The software finds every possible point of entry into web application for SQLi. It creates attacks that target particular regions explicitly and then uses machine learning to monitor how the application responds to these assaults [4]. The process of detection and prevention is difficult, but it is made easier if one has a good understanding of the many types

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Intelligent System and Data Analysis Priyadarsi Nanda, Sumit Srivastava, Vivek Kumar Verma, Pankaj Vyas, 2025-01-27

This book features original papers from the Doctoral Symposium in 4th International Conference on Smart IoT Systems Innovations and Computing SSIC 2023 organized by Manipal University Jaipur India during 26 27 October 2023 It discusses scientific works related to data engineering in the context of computational collective intelligence consisted of interaction between smart devices for smart environments and interactions The book offers high quality content and the broad range of topics useful for researchers pursuing advanced studies Web Security against SQL Injection Attack RASHMI

GUPTA, RUCHI KAMRA, 2019-06-06 The SQL Injection Attack is very large safety measure risk in the present scenerio That manages conscious and secret records and put the injurious SQL query put to modify the expected function This book introduces a latest framework to protecting web based application from the SQL Injection Attack This book is authored by Ms Rashmi Gupta and Ms Ruchi Kamra working as assistant professor in Amity University Haryana Algorithms in Advanced Artificial Intelligence R. N. V. Jagan Mohan, Vasamsetty Chandra Sekhar, V. M. N. S. S. V. K. R. Gupta, 2024-07-08 The most common form of severe dementia Alzheimer s disease AD is a cumulative neurological disorder because of the degradation and death of nerve cells in the brain tissue intelligence steadily declines and most of its activities are compromised in AD Before diving into the level of AD diagnosis it is essential to highlight the fundamental differences between conventional machine learning ML and deep learning DL This work covers a number of photo preprocessing approaches that aid in learning because image processing is essential for the diagnosis of AD The most crucial kind of neural network for computer vision used in medical image processing is called a Convolutional Neural Network CNN The proposed study will consider facial characteristics including expressions and eye movements using the diffusion model as part of CNN s meticulous approach to Alzheimer s diagnosis Convolutional neural networks were used in an effort to sense Alzheimer s disease in its early stages using a big collection of pictures of facial expressions **Basics of SQL Injection Analysis, Detection and**

Prevention Jagdish Halde, 2014-10 Web sites are dynamic static and most of the time a combination of both Web sites needs to protect their databases to assure security An SQL injection attacks interactive web applications that provide database services These applications take user inputs and use them to create an SQL query at run time In an SQL injection attack an attacker might insert a malicious crafted SQL query as input to perform an unauthorized database operation Using SQL injection attacks an attacker can retrieve modify or can delete confidential sensitive information from the database It may jeopardize the confidentiality trust and security of Web sites which totally depends on databases This report presents a code reengineering that implicitly protects the web applications from SQL injection attacks It uses an original approach that combines static as well as dynamic analysis In this report I mentioned an automated technique for moving out SQL injection vulnerabilities from Java code by converting plain text inputs received from users into prepared statements

International Conference on Innovative Computing and Communications Deepak Gupta, Ashish Khanna, Siddhartha Bhattacharyya, Aboul Ella Hassanien, Sameer Anand, Ajay Jaiswal, 2020-08-01 This book includes high quality research papers presented at the Third International Conference on Innovative Computing and Communication ICICC 2020 which is held at the Shaheed Sukhdev College of Business Studies University of Delhi Delhi India on 21-23 February 2020. Introducing the innovative works of scientists, professors, research scholars, students, and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Wireless Communication Security Manju Khari, Manisha Bharti, M. Niranjana Murthy, 2023-01-12 WIRELESS COMMUNICATION SECURITY Presenting the concepts and advances of wireless communication security, this volume, written and edited by a global team of experts, also goes into the practical applications for the engineer, student, and other industry professionals. Covering a broad range of topics in wireless communication security and its solutions, this outstanding new volume is of great interest to engineers, scientists, and students from a variety of backgrounds and interests. Focusing on providing the theory of wireless communication within the framework of its practical applications, the contributors take on a wealth of topics integrating seemingly diverse areas under one cover. Wireless Communication Security has been divided into five units. The first unit presents the different protocols and standards for developing a real-time wireless communication security. The second unit presents different widely accepted networks which are the core of wireless communication security. Unit three presents the various device and network controlling methodologies. Unit four presents the various high performance and computationally efficient algorithms for efficient and scalable implementation of network protocols, and the last unit presents the leading innovations and variety of usage of wireless communication security. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas, this is a must-have for any library.

Detection of Intrusions and Malware, and Vulnerability Assessment Ulrich Flegel, 2009-07 This book constitutes the refereed proceedings of the 6th International Conference on Detection of Intrusions and Malware and Vulnerability Assessment DIMVA 2009 held in Milan, Italy, in July 2009. The 10 revised full papers presented together with three extended abstracts were carefully selected from 44 initial submissions. The papers are organized in topical sections on malware and SPAM, emulation-based detection, software diversity, harnessing context, and anomaly detection.

Blockchain Detection of Cybersecurity Attacks and Risk Management Almaiah, Mohammed Amin, 2025-07-25 Blockchain technology emerges as a transformative force in cybersecurity, offering decentralized, transparent, and secure mechanisms that enhance threat detection and risk management. Traditional security systems often leave organizations exposed to advanced threats. By leveraging blockchain security frameworks, organizations can detect anomalies in real-time, track data and events, and ensure accountability across networks. This integration of blockchain into cybersecurity strengthens threat response and redefines risk.

management strategies by providing records of activity enabling more proactive and resilient security Blockchain Detection of Cybersecurity Attacks and Risk Management explores the innovative application of blockchain technology in the realm of cyber risk management It examines how blockchain is being leveraged to address cybersecurity challenges enhance data integrity and fortify risk management practices in various industries This book covers topics such as machine learning threat detection and fuzzy logic and is a useful resource for engineers security professionals business owners academicians researchers and data scientists

Advances in Cyber Security Nibras Abdullah, Selvakumar Manickam, Mohammed Anbar, 2021-12-02 This book presents refereed proceedings of the Third International Conference on Advances in Cyber Security ACeS 2021 held in Penang Malaysia in August 2021 The 36 full papers were carefully reviewed and selected from 92 submissions The papers are organized in the following topical sections Internet of Things Industry 4 0 and Blockchain and Cryptology Digital Forensics and Surveillance Botnet and Malware DDoS and Intrusion Detection Prevention Ambient Cloud and Edge Computing SDN Wireless and Cellular Communication Governance Social Media Mobile and Web Data Privacy Data Policy and Fake News

Cognitive Computing and Cyber Physical Systems Nishu Gupta, Prakash Pareek, M.J.C.S. Reis, 2023-03-24 This proceedings constitutes the post conference proceedings of the 3rd EAI International Conference on Cognitive Computing and Cyber Physical Systems IC4S 2022 held at Vishnu Institute of Technology Bhimavaram in Andhra Pradesh India in November 26 27 2022 The theme of IC4S 2022 was cognitive computing approaches with data mining and machine learning techniques The 22 full papers were carefully reviewed and selected from 88 submissions The papers are clustered in thematical issues as follows machine learning and its applications cyber security and networking image processing IoT applications smart city eco system and communications

The 10th International Conference on Computer Engineering and Networks Qi Liu, Xiaodong Liu, Tao Shen, Xuesong Qiu, 2020-10-05 This book contains a collection of the papers accepted by the CENet2020 the 10th International Conference on Computer Engineering and Networks held on October 16 18 2020 in Xi an China The topics focus but are not limited to Internet of Things and Smart Systems Artificial Intelligence and Applications Communication System Detection Analysis and Application and Medical Engineering and Information Systems Each part can be used as an excellent reference by industry practitioners university faculties research fellows and undergraduates as well as graduate students who need to build a knowledge base of the most current advances and state of practice in the topics covered by this conference proceedings This will enable them to produce maintain and manage systems with high levels of trustworthiness and complexity

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hiding cloud computing IOT applications information security multimedia applications optimization and classification

Proceedings of the International Conference on Advanced Intelligent Systems and Informatics 2019 Aboul Ella Hassanien, Khaled Shaalan, Mohamed Fahmy Tolba, 2019-10-02 This book presents the proceedings of the 5th International Conference on Advanced Intelligent Systems and Informatics 2019 AISI2019 which took place in Cairo Egypt from October 26 to 28 2019 This international and interdisciplinary conference which highlighted essential research and developments in the fields of informatics and intelligent systems was organized by the Scientific Research Group in Egypt SRGE The book is divided into several sections covering the following topics machine learning and applications swarm optimization and applications robotic and control systems sentiment analysis e learning and social media education machine and deep learning algorithms recognition and image processing intelligent systems and applications mobile computing and networking cyber physical systems and security smart grids and renewable energy and micro grid and power systems Computer Networks and Intelligent Computing K. R. Venugopal, L. M. Patnaik, 2011-07-20 This book constitutes the refereed proceedings of the 5th International Conference on Information Processing ICIP 2011 held in Bangalore India in August 2011 The 86 revised full papers presented were carefully reviewed and selected from 514 submissions The papers are organized in topical sections on data mining Web mining artificial intelligence soft computing software engineering computer communication networks wireless networks distributed systems and storage networks signal processing image processing and pattern recognition

Advances in Distributed Computing and Machine Learning Asis Kumar Tripathy, Mahasweta Sarkar, Jyoti Prakash Sahoo, Kuan-Ching Li, Suchismita Chinara, 2020-06-11 This book presents recent advances in the field of distributed computing and machine learning along with cutting edge research in the field of Internet of Things IoT and blockchain in distributed environments It features selected high quality research papers from the First International Conference on Advances in Distributed Computing and Machine Learning ICADCML 2020 organized by the School of Information Technology and Engineering VIT Vellore India and held on 30 31 January 2020 **Machine Learning and Big Data**

Analytics Paradigms: Analysis, Applications and Challenges Aboul Ella Hassanien, Ashraf Darwish, 2020-12-14 This book is intended to present the state of the art in research on machine learning and big data analytics The accepted chapters covered many themes including artificial intelligence and data mining applications machine learning and applications deep learning technology for big data analytics and modeling simulation and security with big data It is a valuable resource for researchers in the area of big data analytics and its applications **Emerging Technologies in Data Mining and**

Information Security Paramartha Dutta, Satyajit Chakrabarti, Abhishek Bhattacharya, Soumi Dutta, Vincenzo Piuri, 2022-09-28 This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security IEMIS 2022 held at Institute of Engineering Management Kolkata India during February 23 25 2022 The book is organized in three volumes and includes high quality research work by academicians and

industrial experts in the field of computing and communication including full length papers research in progress papers and case studies related to all the areas of data mining machine learning Internet of Things IoT and information security

Vulnerability Analysis and Defense for the Internet Abhishek Singh, 2008-01-24 Vulnerability analysis also known as vulnerability assessment is a process that defines identifies and classifies the security holes or vulnerabilities in a computer network or application In addition vulnerability analysis can forecast the effectiveness of proposed countermeasures and evaluate their actual effectiveness after they are put into use Vulnerability Analysis and Defense for the Internet provides packet captures flow charts and pseudo code which enable a user to identify if an application protocol is vulnerable This edited volume also includes case studies that discuss the latest exploits

Advances in Information Communication Technology and Computing Vishal Goar, Manoj Kuri, Rajesh Kumar, Tomonobu Senjyu, 2024-10-02 The book is a collection

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Security, Privacy and Data Analytics Udai Pratap Rao, Mamoun Alazab, Bhavesh N. Gohil, Pethuru Raj Chelliah, 2023-08-18 This book constitutes refereed proceedings of the International Conference on Security Privacy and Data Analytics ISPDA 2022 The volume covers topics including big data and analytics cloud security and privacy data intelligence hardware security network security blockchain technology and distributed ledger machine learning for security and many others The volume includes novel contributions and the latest developments from researchers across industry and academia working in security privacy and data analytics from technological and social perspectives This book will emerge as a valuable reference for researchers instructors students scientists engineers managers and industry practitioners across the globe

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