

Dilraj M

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Education

Master of Technology (2017–2019) **M. Tech in Cybersecurity Systems and Networks**, Amrita Vishwa Vidyapeetham, Amritapuri, 75.8 Percentage .

Master of Computer Applications (2013–2016) **Master of Computer Applications**, Cochin University of Science and Technology, Kochi, 76 Percentage.

Experience

12 August 2019 to 09 October 2019 **Cyber Security Engineer**, Honeywell Technology Solutions, Worked on: Mobile Application Security, Hardware Security, Thick Client Security, Firmware Analysis, Web Application Testing , .

07 January 2019 to 02 August 2019 **Intern as a Cyber Security Analyst**, Honeywell Technology Solutions, Worked on: Mobile Application Security, Hardware Security, Thick Client Security, Firmware Analysis, Web Application Testing , .

Publication

Towards the Behavioural Profiling Based Anomaly Detection for Smart Homes.

Proposed a Machine Learning model to detect anomalous behaviours in the smart home IoT devices using Power Traces. The paper Published in TENCON 2019 on 12 December 2019.

Paper Link: <https://ieeexplore.ieee.org/document/8929235>

Certifications

- NPTEL Online Certificate Course in Inter Network Security organized by IIT kharagpur
- Certificate course in Auto CAD

Academic Projects

Set of Algorithms for Finding out High Utility Itemsets.

Consists of the implementation of three data mining algorithms (UP-Tree, UP-Growth and Apriori) for finding out High Utility Itemsets from the large transactional databases.

Environment: Java, MySQL

Responsibilities: Developing Window application using Java and MySQL in Netbeans 8.1, Designing of UML Diagrams, Implementation and Testing of the project.

Student Management System.

A web application that automates student information like Attendance, Internal Marks, Fee paid. etc

Environment: PHP, MySQL

Responsibilities: Designing and coding the Web application using PHP and MySQL 5.6, Designing of UML Diagrams, Implementation and Testing of the project.

Library Management System.

An online software to automate library functions such as issue of books, renew of books, return of books, calculation of fine.etc.

Environment: Visual Basic, MySQL server

Responsibilities: Developing online application using VB and SQL Server 2008 in Visual Studio 2010, Designing of UML Diagrams, Implementation and Testing of the project.

Minor Projects

Implementation of Uno Game .

A TCP Client was designed such that it evaluates the uno game state sent by the server and returns the total score of each player, winner of each round and overall winner.

Environment: Python

Implementation of snake- and -ladder game.

A TCP server that can connect to multiple clients simultaneously was designed such that the state of snake and ladder game is read from each client by the server and returns the current game state, winner of games, final positions and the square traversed for each client.

Environment: Python

Password Cracking : John the Ripper.

To recover as many user passwords as possible using a dictionary of words commonly used in passwords.

Environment: C

Virus Scanner.

Write a scanner program (a process that runs in a loop) that scans all files in a directory and computes an MD5 hash of all the files in the directory and stores it. Every T seconds the scans to see if the hash of a file is now different from the original hash

Environment: C

Co-curricular Activities

- NPTEL Online Certificate Course in Inter Network Security with Elite tag organized by IIT kharagpur.
- Participated as a student coordinator of the National Level Inter-Colligate IT fest Tech Comienzo 2K15 held at KVM college of Engineering and IT, Cherthala, Alappuzha.
- Secured First position in Zonal rounds of Robo Galaxy-2014, Organized by UVSofts Technologies Pvt,Ltd.

Computer skills

Operating Systems Windows (XP, 7, 8, 10), Linux

Database MySQL

Tools	Postman, Burp Suit, Wireshark, Visual Studio, GHex, Audacity, IDA, GDB- Peda, Burp Suit, Ghidra, MobSF
Languages	C, C++, Python (Basics), Java (Basics)
Web Technologies	ASP.NET (V.B), HTML, PHP
Other	Proficiency in Reverse Engineering

Personal Details

Date of Birth	29/05/1992
Languages Known	English, Malayalam