JAYDEEPSINH MEDA

Work Experience

MAQ Software
Software Engineer
Mumbai
July '18 to July '19

Analysed and implemented customer requirements to develop, test and deploy computer software applications and systems.
Technologies: C#, HTML, CSS, JavaScript, SQL Server and SQL Server BI

MAQ Software
Software Intern
Mumbai
Jan. '18 to July '18

Research Experience

Distributed Bounded Model Checking(Master's Thesis), Supervisor: Prof. Subhajit Roy
July '20 to Current

Working on parallelizing SAT-based automated program verification.

Key Projects

Secure File Storage Server (CS628A)
Aug. '19 to Nov. '19

Developed an architecture to maintain Confidentiality and Integrity even if server used for storage is untrusted. Implemented in golang and made functionalities like storing, retrieving, appending, sharing and revoking of files efficient.

Binary and Web Exploitation (CS628A)
Aug. '19 to Nov. '19

Exploited binaries using vulnerabilities like buffer/integer overflow using return based attacks Exploited a web app using SQL Injection, Cross Site Request Forgery and Cross Site scripting attacks.

Formal Verification using SAT solver (CS675A)
Jan. '20 to Mar. '20

Used z3 SAT solvers to verify equivalence of two circuits, differentiating firewalls and solving/creating sudoku in scala.

Malware Analysis and Classification (CS698M)
Jan. '20 to Mar. '20

Performed feature engineering to extract good features from structure of executable. Trained a random forest classifier to classify a given file as benign or malware in python.

Movie Review and Recommendation Web-Site (B.Tech Project)
July '17 to Dec. '17

A web application in which registered user can rate and review a movie. Guest can go through ratings and reviews. Site recommend movies to user.

DeCaptcha (CS771A)
Aug. '19 to Nov. '19

Trained a model to extract characters from image using CNN in python.

2D Game in Unity (B.Tech Project)
July '16 to Dec. '16

2D mobile game for android where player can jump around to collect coins and dodge enemies/spikes.

Position of Responsibility

Teaching Assistant : Responsible for conducting weekly labs, invigilating exams & grading assignments.

Education

M.Tech in Computer Science and Engineering, 2021
Indian Institute of Technology, Kanpur CPI: 8.7/10

B.Tech in Computer Science and Engineering, 2018
Institute of Technology, Nirma University CPI : 7.77/10

Higher Secondary Certificate, 2014
GSHEB 72.61%

Secondary School Certificate, 2012
GSHEB 85.2%

Contact

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Skills

LANGUAGES KNOWN: C, C++, Java, HTML, Scala, Python
TOOLS: SSIS, Unity3D, SSMS, PowerBI, Visual Studio, z3
WEB TECHNOLOGIES: AngularJs, Node Js
DATABASES: MySQL, MongoDB

Certifications

Developing SQL Data Models

Querying Data with Transact-SQL

Data Warehousing for Business Intelligence

Relevant Courses

Introduction to Machine Learning

Malware Analysis and Intrusion Detection

Computer Systems Security

Designing Verifiably Secure Systems

Parallel Computing