Sarmad Chandio

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EDUCATION

BS, Computer Science, Lahore University of Management Sciences (LUMS), Pakistan, **CGPA 3.69**   2017 - 2021

Relevant Courses: Internet of Things, Topics in Network and Security, Machine Learning, Algorithms, Network-Centric Computing, Network Security, Principles of Data Science, Deep Learning, Artificial Intelligence, Intro to Data Mining, Speech Processing, Software Engineering, Theory of Automata, Operating Systems, Advanced Programming, Data Structures, Databases, Linear Algebra, Discrete Mathematics, Statistics and Data Analysis, Probability.

RESEARCH EXPERIENCE

- **Security Analysis**
  Written a paper that compares the security hygiene of apps made in developing with apps made in developed countries. Third author with Dr. Fareed Zaffar (PH.D. DUKE), Dr. Rashid Tahir (PH.D. UIUC) and Faizan Ahmad (SECURITY ENGINEER AT FACEBOOK)

- **Analysis of Advertisement Network**   2020 - Current
  For my senior year project I am analyzing if the android applications designed for children show inappropriate content. This involves creating separate adult and child personas and then automating the interaction of these personas with the applications to sniff the data and analyze it.

- **Research with Dr. Fareed Zaffar**   2019 - Current
  Penetration testing of android & web applications.
  Analyzing data leakage in apps.
  Software Defined Networking.
  Android Security.

- **Research with Dr. Ashish Gehani**   2021 - Current
  Doing an extensive measurement study on code bloating. This work is being done in collaboration with Dr. Ashis Gehani (PH.D. DUKE), Dr. Fahad Shaon (PH.D. UT DALLAS), Dr. Sazzadur Rahaman (PH.D. VIRGINIA TECH), and Dr. Vinod Yegneswaran(PH.D. UNIVERSITY OF WISCONSIN)

PROFESSIONAL APPOINTMENTS

Research Assistant	LUMS	Internet Security and Privacy Lab	09/2019 – Current
Teaching Assistant	LUMS	Network Security	01/2021 – 05/2021
Teaching Assistant	LUMS	Introduction to Problem Solving	01/2020 – 05/2020
Teaching Assistant	LUMS	Introduction to Computer Science	09/2019 – 12/2019

PROJECTS

1. **DHT Network**
   Implemented a DHT based Self Scalable File Sharing P2P Network using multi-threading and socket programming in python.

2. **Medical Chat System for Softronix Inc.**
   Implemented the front end of a chatting mobile application using react native. Dynamically updating the channels was done in firebase and was a part of the front end.

3. **Greenhouse IoT Application**
   Simulated raw data from multiple IoT devices on Cooja (simulator) and sent them to the cloud for processing using CoAP. The cloud used data analytic techniques to raise an alarm if the plants were in critical condition.

4. **Ad Fraud Detection Model**
   Implemented a regression algorithm to predict videos that promoted Ad-Click Fraud on YouTube.

5. **Airline Database Management System**
   Implemented an airline database management system in MySQL with unique functionalities of admin and receptionist. The users interact with the DBMS in CLI made in python.

6. **Yet Another Programming Language**
   Implemented 'Yet Another Programming Language' using python in a semester long project of Theory of Automata.

SKILLS

- **Languages:** Python, C/C++, JS, Java, MySQL, React Native, HTML, Haskell, Golang.

- **Tools:** Selenium, Appium, Airtest Framework, Burp Suite, Postman, Wireshark, Frida, Android Debug Bridge.

HONORS AND AWARDS

- **Dean's Honor List Academic Year:** 2019-2020

- **Dean's Honor List Academic Semester(s):** Fall 2017, Fall 2018, Spring 2019, Fall 2019, Spring 2020, Fall 2020