Mujahid Khan

Github: assaaassin LinkedIn: mujahid-khan HackerRank: toradora

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PROJECTS

PSEUDOBOT

Developed a chatbot and a personal assistant with re-inforced learning for Software Engineering course

BATTLEAI

Developed a two-player AI of Battleship using probabalistic learning

EXPERIENCF

EDUCATIVE | TECHNICAL AUTHOR

Python & Javascript Challenges, Educative Inc. (currently working)

LUMS | TEACHING ASSISTANT

Spring 2018 - Advanced Programming Spring 2017 - Artificial Intelligence

COURSEWORK

ELECTIVE

Program Analysis Network Security High Performance Computing Human-Computer Interaction Computer Graphics

SKILLS

PROGRAMMING

Over 5000 lines:

- Java C++ Python Over 1000 lines:
- •C JavaScript Golang Familiar:
- Haskell Assembly Android
- Unity3D LLVM JPF
- Z3Solver Jalangi Bash

EDUCATION

LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS)

BS IN COMPUTER SCIENCE, CONCENTRATED IN PROGRAM ANALYSIS Exp. Jun 2018 | Lahore, Pakistan

RESEARCH

SENIOR YEAR PROJECT

MENTORS: DR. JUNAID HAROON SIDDIQUI, PHD UT AUSTIN

Jun 2017 - Present

Working on **Program Analysis** of embedded devices. We are targeting underlying operating systems such as Contiki and performing **Static Analysis** on applications that run on it using **LLVM** for power and memory optimization of IoT devices.

PROGRAM ANALYSIS COURSE PROJECT

MENTORS: DR. JUNAID HAROON SIDDIQUI, PHD UT AUSTIN Sep 2017 - Dec 2017

Facilitated isolated testing of front-ends by identifying the objects being communicated using AntIr4 and Python. Manually instrumented the code in the input javascript file by deleting http get calls and inserting object recreation code.

HUMAN COMPUTER INTERACTION COURSE PROJECT

MENTOR: DR. SULEMAN SHAHID, PHD TILBURG UNIVERSITY

Sep 2017 - Dec 2017

Developed an android application called **MyStent** to reduce the health risks associated with post-stent patients by providing guidelines and an emergency portal after proper user research.

DIRECTED RESEARCH PROJECT

MENTORS: DR. JUNAID HAROON SIDDIQUI, PHD UT AUSTIN

Jan 2017 - May 2017

Understood Java Pathfinder (JPF) inside-out and explored **Model Checking** by writing sample Listeners and Choice-Generators. Reproduced the results of a previous research paper.

BIOINFORMATICS RESEARCH INTERNSHIP

MENTOR: DR. AZIZ MITHANI, DPHIL UNIVERSITY OF OXFORD

May 2016 - Aug 2016

Worked on the analysis of HANDS2 (HSP base Assignment using NGS data through Diploid Similarity) and improvised and revamped the existing code for HANDS2 using HTSJDK (Java API for High Throughput Sequencing developed by Broad Institute).

AWARDS AND ACHIEVEMENTS

- 2014 National Outreach Program Scholarship
- 2016 Director IT, E-sports @ LUMS
- 2016 Qualified for ICPC Regional Finals
- 2016 Participated in Google Codejam
- 2017 Participated in Google Codejam
- 2017 Runners-up, Mindsweeper 2017