

Mujahid Khan

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EDUCATION

LUMS

BS IN COMPUTER SCIENCE

Exp. Jun 2018 | Lahore, Pakistan

Conc. in **Program Analysis**

SBA School of Science & Engineering

GOVT. COLLEGE UNIVERSITY

Grad. Jun 2014 | Lahore, Pakistan

FSc. Pre-Engineering

PROJECTS

PSEUDOBOT

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

JAVA PATHFINDER (JPF)

Understood JPF inside-out and wrote sample Listeners and Choice Generators. Reproduced results of a previous research paper in a Directed Research Coursework

BATTLEAI

Developed a two-player AI of Battleship using probabilistic learning

COURSEWORK

GRADUATE

Program Analysis

Network Security

High Performance Computing

Human-Computer Interaction

UNDERGRADUATE

Fundamentals of Computer Systems

Operating Systems

Artificial Intelligence

Advanced Programming

Algorithms

SKILLS

PROGRAMMING

Over 5000 lines:

• Java • C++ • Python

Over 1000 lines:

• C • JavaScript • Golang

Familiar:

• Haskell • Assembly • Android

• Unity3D • LLVM • JPF

• Z3Solver • Bash

EXPERIENCE

EDUCATIVE INC. | TECHNICAL AUTHOR

Jul 2017 - Present | United States

- Author of Python and Javascript Challenges

LUMS | TEACHING ASSISTANT

Spring 2018 | Lahore, Pakistan

- Teaching assistant for the course Advanced Programming - CS 300

LUMS | TEACHING ASSISTANT

Spring 2017 | Lahore, Pakistan

- Teaching assistant for the course Intro to Artificial Intelligence - CS 331

RESEARCH

PROGRAM ANALYSIS GROUP | SENIOR YEAR PROJECT

MENTORS: DR. JUNAID HAROON SIDDIQUI, DR. HAMAD ALIZAI

Jun 2017 - Present | Lahore, Pakistan

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**. This optimizes power consumption of IoT devices and reduces the amount of memory required to save a certain state.

PROGRAM ANALYSIS GROUP | RESEARCH PROJECT

MENTOR: DR. JUNAID HAROON SIDDIQUI

Sep 2017 - Dec 2017 | Lahore, Pakistan

Developing a solution to test user interfaces of dynamic websites in the absence of a working server. The goal is to perform **Symbolic Execution** on client-side javascript of such websites and locate possible bugs.

COURSEWORK | RESEARCH PROJECT

MENTOR: DR. SULEMAN SHAHID

Sep 2017 - Dec 2017 | Lahore, Pakistan

Developing an android application called **MyStent** to reduce the health risks associated with post-stent patients by providing guidelines and an emergency portal. The application will also keep track of logs maintained by the user (heartbeat rate) in order to provide data in an efficient and easy-to-comprehend way for both the patients and the doctors.

BIOINFORMATICS RESEARCH LAB | RESEARCH INTERNSHIP

MENTOR: DR. AZIZ MITHANI

May 2016 - Aug 2016 | Lahore, Pakistan

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 Scholarship National Outreach Program for Undergraduates

2016 Director IT E-sports @ LUMS

2016 Finalist Qualified for ICPC Regional Finals

2016 Qualified Cleared the qualification round for Google Codejam

2017 Qualified Cleared the qualification round for Google Codejam

2017 Runners-up Mindsweeper 2017