

Burhanuddin Ezzi

K141 Al Burhan Arcade,
North Nazimabad, Karachi.
+92 332 3314750
be07724@st.habib.edu.pk

Hi, I am Burhanuddin, a Computer Science student at Habib University. As a sophomore student, I am interested in internships and research through which I can nurture my problem-solving and analytical skills. I do competitive programming and curious exploration with Python, focusing on optimization problems and dynamic programming. My goal is to become the best competitive programmer in Pakistan.

INTERESTS

- Internet Protocols and Telecom
- Mathematical Modeling/Simulation
- Number Theory
- Web Programming

WORK

Teaching Assistant, Habib University — *Programming Fundamentals Course*

September 2022 - December 2022

Supervised students in their labs and held office hours to help students to help with assignments

Entrepreneurship Club, Habib University — *Treasurer*

April 2022 - PRESENT

Habib University Entrepreneurship Club aims to spread awareness of business opportunities to students and constantly work to support student startups and projects.

MJ Textiles, S.I.T.E Area — *Voluntary Internship*

June 2019 - August 2019

Gained industrial experience in various departments at the company including production, sales, transportation, and execution.

EDUCATION

Habib University, Karachi — *BSc. Computer Science*

September 2021 - Present

HUTOPS scholar

MSB Educational Institute, Karachi — *HSSC (high school)*

August 2018 - April 2020

Pre- Engineering, AKU-EB

SKILLS

Computer Programming:

4-Fluent, and consistently using and learning.

3-Can do mediocre tasks with some learning

2- Can do small tasks.

1-Fundamental knowledge

- Python (4/5)
- Git (4/5)
- Data Simulation and Graphing with Python (3/5)
- SQL (3/5)
- LaTeX (3/5)
- C/C++ (2/5)
- App Prototyping – UI (2/5)
- Gate level circuit design (2/5)
- Windows App Dev (2/5)
- Web Programming (1/5)

Office tools:

- Can make presentations that look aesthetic and deliver what is important.
- Can make outstanding Documents using WYSIWYG tools like Word and scripting tools like LaTeX

MSB Educational Institute, Karachi — SSC (secondary school)

August 2016 - May 2018

Science, AKU-EB

PROJECTS

XLOCK – Bluetooth Lock Device Using Basys-3 FPGA

Programmed in Verilog (hardware description language), I and my group partner and built a lock system that uses mobile Bluetooth to unlock a physical lock. For this, we made a mobile application (using drag and drop tool) that could search for devices and send data to the paired device. The FPGA was programmed such that upon receiving correct data it would unlock. The data transfer was done using UART protocols. We also generated a corresponding display for our system through VGA.

Automated Assignment For a Transport System

Built using: MS-SQL server (backend), Windows App with C# (frontend), Python for Generating Random Data in SQL-insert format
HU students want to carpool, but face issues in finding a group that can travel with due to different schedules. We thought it would be nice to create a model that could simulate this situation, and try to find a solution. Random data was generated and worked upon to find a way to solve this issue with a single-click abstraction.

The JumpKing – C++/SDL2

The game was a copy of the original game which I built to implement OOP concepts and increase C++ prowess.

Select Images Containing A Face From A Folder

Using a face-recognition module in Python which is built on C++ dlib.

Sudoku Game — Python

This game is a Data-Structures and Algorithms course's final project. The GUI is made with pygame. As the game is very common, features are being added to make the game better.

Student Database — Python

A project made for the introductory programming course at University. As the name suggests, the application consists of relevant features. The GUI is made with Tkinter.

VOLUNTARY WORK

Zero Food Wastage

2019 - Present

Part of a workforce that saves 5000+ fresh meals from going to waste each year, by packaging and distribution.

Automation:

- Can use/write scripts for Windows Automation.
- Automation takes care of tedious tasks like finding similar documents in a drive and increases productivity.

Creativity

- Good sense of design and brand philosophy.
- Designed a business card for a clothing store.

AWARDS/APPRECIATION

Certificate of Academic Excellence (HSSC and SSC) by MSB Educational Institute

Certificate of Appreciation (Prefect 2018-19) at MSB Educational Institute

Certificate of Appreciation for organizing inter-school cricket tournament.

IT help for Adults

2022

I Am part of an organization that volunteers for technical guidance to adults.