

Breeha Qasim

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TECHNICAL SKILLS

Languages: Python, C++, SQL, HTML, CSS, JavaScript, C

Frameworks/Technologies: React.js, Firebase, MongoDB, Neo4j, Verilog, SDL2.0

Tools: MySQL, Qt Designer, DB Designer, Canva, Git, OOP

EDUCATION

Habib University

Aug 2022 – Present

BS in Computer Science; CGPA: 3.55 — 80% Merit-Based Scholarship

- **Relevant Courses:** Programming Fundamentals, Calculus 1 & 2, Data Structures & Algorithms, Discrete Mathematics, Object Oriented Programming, Database Systems, Linear Algebra, Probability & Statistics, Computer Architecture, Digital Logic Design, Operating Systems, Graph Data Science, Software Engineering & Data Science

Nixor College

Sep 2020 – Aug 2022

Cambridge International A Levels (3 A's – Mathematics, Physics, Computer Science)

The City School, Darakshan Campus

Aug 2017 – Dec 2020

*Cambridge International O Levels (4 A*s, 3 As, 1 B)*

EXPERIENCE

Full Stack Development Intern – Khidmat Project

May 2025 – Present

Karachi Vocational Training Centre (KVTC)

Karachi, Pakistan

- Developing a custom DBMS with a responsive frontend to digitize, organize, and manage student records, streamlining CRUD operations and data retrieval.

Lab Curriculum Developer – Operating Systems Course

June 2025 – Present

Habib University

Karachi, Pakistan

- Under the supervision of Dr. Bilal Wajid, designing and piloting 15 immersive OS lab sessions—focused on scheduling, memory, concurrency, and persistence—to enhance conceptual clarity and establish a scalable hands-on curriculum for CS/CE students.

Teacher Assistant

Jan 2020 – Sept 2020

Unplugged Science with Anila

Remote

- Taught O-Level Chemistry over Zoom, prepared notes, and designed practice worksheets.

ACADEMIC PROJECTS

GDS Bibliographic Graph Project | Neo4j, Cypher

Spring 2025

- Developed a Neo4j-based pipeline using GraphML and Cypher to classify journals and predict co-authorship via Linear Regression and Random Forest.

Skincare & Beauty Consultancy Platform | React.js, HTML/CSS, Firebase

Spring 2025

- Developed a skincare consultancy platform with appointment booking, product listings, and Firebase-authenticated responsive components.

Energy-Constrained Drone Navigation | Python, Graph Algorithms

Spring 2025

- Designed and tested energy-efficient pathfinding algorithms using shortest-path and greedy heuristics on simulated real-world drone scenarios.

Tic Tac Toe Game | Verilog/VHDL

Fall 2023

- Built an interactive FPGA-based game with VGA display and keypad input on Basys 3, enhancing user experience through real-time processing.

University Admission Tracker System | Python, SQL, Qt

Fall 2023

- Designed a user-friendly desktop application for university application tracking, integrating Python, MySQL, and Qt for the UI.

Pacman Pursuit | C++, SDL2

Fall 2023

- Developed a challenging SDL2-based game inspired by the 'World's Hardest Game' using OOP principles, with polymorphic mechanics and optimized performance via efficient memory and collision handling.

COURSES & CERTIFICATIONS

Neo4j Certified Professional – *Neo4j*, Earned Mar 2025
Neo4j Fundamentals – *Neo4j*, Earned Apr 2025
Cypher Indexes and Constraints – *Neo4j*, Earned Apr 2025
Graph Data Modeling Fundamentals – *Neo4j*, Earned Apr 2025
Importing Data Fundamentals – *Neo4j*, Earned Apr 2025
Using Neo4j with Python – *Neo4j*, Earned Apr 2025
Learn HTML, CSS, JavaScript – *Codecademy*, Earned June 2024
Fundamentals of Digital Marketing – *Google*, Earned 2023
Social & Behavioral Responsible Conduct – *CITI Program*, Earned 2022
SBE Comprehensive – *CITI Program*, Earned 2022

AWARDS & LEADERSHIP

80% Merit Based Scholarship – *Habib University*, Awarded 2022
High Achiever Award – *The City School*, Awarded 2020
Space Center Certificate of Completion – *NASA Camp Kennedy*, Awarded 2019
Design Lead – *Habib Debate Union, Mouseequi, Raqs*
Marketing Assistant Director – *HU Sports Olympiad*
Marketing Lead – *Sports Recreational Society*
Chief Marketing Officer – *Raft Regatta Team, Nixor College*