

# Breeha Qasim

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## EDUCATION

### Habib University

BS in Computer Science; CGPA: 3.57/4.00 — 80% Merit-Based Scholarship

Karachi, Pakistan

August 2022 – Present

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

## EXPERIENCE

### Karachi Vocational Training Centre (KVTC)

Full Stack Development Intern – Khidmat Project

Karachi, Pakistan

May 2025 – August 2025

- Built a database-backed record management system for over 500 student profiles, improving data organization and retrieval efficiency

### Habib University

Lab Curriculum Developer & Research Assistant – Operating Systems Course

Karachi, Pakistan

June 2025 – August 2025

- Authored and piloted 14 hands-on operating systems lab manuals covering scheduling, memory management, concurrency, and persistence for CS/CE cohorts

### Unplugged Science with Anila

Teacher Assistant

Remote

January 2020 – September 2020

- Facilitated online O-Level Chemistry instruction for multiple student batches and prepared structured notes and assessment worksheets

## ACADEMIC PROJECTS

### Sarcasm Detection using Word Embeddings | Python, NLP, Word2Vec, GloVe

Fall 2025

- Engineered a sarcasm detection pipeline using Word2Vec, GloVe, and BERT-based BiLSTM models on a dataset of over 20,000 short- sarcastic text samples

### GDS Bibliographic Graph Project | Neo4j, Cypher

Spring 2025

- Constructed a Neo4j bibliographic graph of 1,200+ journals using GraphML and Cypher to analyze citation links and co-authorship patterns

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

Spring 2025

- Implemented a responsive consultancy platform supporting appointment booking and product listings for 10+ catalog items with Firebase authentication

### Energy-Constrained Drone Navigation | Python, Graph Algorithms

Spring 2025

- Evaluated energy-efficient drone navigation strategies using shortest-path and greedy heuristics across simulated maps with up to 90+ nodes

### University Admission Tracker System | Python, SQL, Qt

Fall 2023

- Designed a desktop application to track university applications using Python, SQL, and Qt-based interfaces, tested across 5 representative application records

## COURSES & CERTIFICATIONS

Participation in AI Tour – Sindh, 2025

Neo4j Certified Professional, Graph Data Modeling & Cypher – Neo4j, 2025

Learn HTML, CSS, JavaScript – Codecademy, 2024

## 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 Space Center (Awarded 2019)

Design Lead – Habib Debate Union, Mouseequi & Raqs

Marketing Assistant Director – Habib University Sports Olympiad

Marketing Lead – Sports & Recreational Society

Chief Marketing Officer – Raft Regatta Team

## TECHNICAL SKILLS

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

**Frameworks/Technologies:** React.js, Node.js, Firebase, MongoDB, Neo4j, Prisma, Neon, Tailwind CSS, Verilog, SDL2.0

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

**Languages:** English (Fluent), Urdu (Native)