

RIDA FATIMA

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Objective

Computer Engineering undergraduate specializing in AI and Software Engineering, with hands-on experience in full-stack development, outcome-based education software, and AI evaluation systems. Adept at bridging technical innovation with user-centric design, and proven ability to deliver impactful academic and industry projects.

Technical Experience

Virtual University of Pakistan

July 2025 – August 2025

Software Developer Intern

Lahore, Pakistan

- Designed and developed a full-stack **Outcome-Based Education (OBE) analytics system** to automate CLO–PLO mapping, assessment data processing, and quality enhancement.
- Implemented Excel ingestion pipelines with **data validation and computation modules** to generate attainment files for each course.
- Built interactive **Sankey diagrams and attainment dashboards** in D3.js to visualize CLO–PLO contributions and CQI cycles.
- Developed export features for **Excel and PDF reports**, supporting accreditation standards (HEC, PEC, NAEAC).
- Impact: Reduced manual workload of faculty by **70%**, enabling real-time accreditation readiness and outcome tracking across pilot departments.

Tarsil.pk

June 2025 – July 2025

Full-stack Developer Intern

Lahore, Pakistan

- Contributed to the development of the **Tarsil platform**, a Next.js/TypeScript web application supporting dynamic dashboards and rights-based access.
- Implemented a responsive **login page from Figma designs**, ensuring accessibility, pixel-perfect layout, and mobile-first responsiveness.
- Optimized backend menu-building logic by supporting a batched rights-based filtering approach, reducing Redis calls and improving performance by over **90%** (from 2965ms to 280ms).
- Redesigned the **sidebar navigation system** with collapsible sections, dynamic icons, and a responsive user profile section, improving usability and design consistency.

Konfidence.ai

June 2024 – Current

AI Training Assistant

Remote

- Produce and analyze training data for an AI interview-feedback system, clarifying edge cases to improve model judgments on verbal and facial signals.

Software Projects

Bilkent Voyage (Project Demo) | JS, CSS, Java Spring Boot, Postman

Dec 2024

- Built an automated platform to organize campus tours, replacing manual Google Forms/Excel workflows with features for scheduling, prioritization, and participant assignments.
- Led **UI/UX development** and implemented backend integration for applications, priority-based tour matching, and guide scheduling algorithms.

A Green Deal (Project Demo) | Java, Android Studio, Firestore

Dec 2023

- Developed a mobile app connecting landowners and professionals with a streamlined, visually engaging interface to promote sustainable land use.
- Implemented backend logic and integrated **Firestore** for data management; co-designed UI/UX for a responsive and intuitive user experience.

Test Scores

GRE: 327 (Quantitative 168, Verbal 159, AWA 5.0)

IELTS: 8.0 (C1 Advanced Proficiency)

Education

Bilkent University

Sept. 2022 – June 2026

Bachelor of Science in Computer Engineering

Ankara, Türkiye

Beaconhouse College Campus Gulberg

Sept. 2020 – June 2022

International Baccalaureate; 40 IB Points

Lahore, Pakistan

The City School

Sept. 2017 – June 2020

Cambridge Ordinary Levels; 8A*s & 2As

Lahore, Pakistan

Technical Skills

Languages: Java, C++, JavaScript/TypeScript, PHP, Python, SQL, HTML/CSS

Frameworks and Tools: React, Next.js, Spring Boot, Android Studio, Git/GitHub, Postman, VS Code

Specialized: FPGA (Basys3), MIPS Assembly, SystemVerilog, Linux

Achievements and Accomplishments

School Ambassador (Certificate)	Mar 2020
Team Leader in LUMS PSIFI XI Science Olympiad (Certificate)	Jan 2020
Team Leader in ACSEC Science Olympiad (Certificate)	Sept 2019
School 1st Position Distinction in CEATS Math Contest (Certificate)	Nov 2018
High Distinction National Winner 1st Position in CEATS Math Contest (Certificate)	Oct 2017
Bronze Medalist in International Kangaroo Linguistic Competition (Certificate)	Apr 2016
Gold Medalist in International Kangaroo Math Competition (Certificate)	Apr 2013
Community Service at WWF - Pakistan's Digital Eco Internship Programme (60 Hours) (Certificate)	Jan 2021

Certifications

McMaster University: Learning How to Learn: Master Tough Subjects (Coursera Certificate)	July 2020
Case Western Reserve University: Inspiring Leadership through Emotional Intelligence (Coursera Certificate)	July 2020
University of Michigan: Influencing People (Coursera Certificate)	July 2020
University of Michigan: Inspiring and Motivating Individuals (Coursera Certificate)	July 2020
University of Michigan: The Science of Success (Coursera Certificate)	July 2020
Wesleyan University: How to Change the World (Coursera Certificate)	July 2020
University of Washington: Introduction to Public Speaking (Coursera Certificate)	July 2020
Cracking the Creativity Code: Discovering Ideas (Coursera Certificate)	July 2020
University of Toronto: The Arts and Science of Relationships: Understanding Human Needs (Coursera Certificate)	July 2020
University of Toronto: Mind Control: Managing Your Mental Health During COVID-19 (Coursera Certificate)	July 2020
Rice University: Self Awareness and the Effective Leader (Coursera Certificate)	Apr 2020

Social Work

WWF	May 2020 – Jan 2021
<i>Intern</i>	<i>Lahore, Pakistan</i>

- Gained a deeper understanding of environmental sustainability and its impact on wildlife and ecosystems.
- Developed awareness of critical environmental challenges in Pakistan, focusing on conservation efforts.
- Contributed to community initiatives aimed at promoting environmental stewardship and preservation.

Shaukat Khanum Memorial Hospital	June 2019 – Aug 2019
<i>Intern</i>	<i>Lahore, Pakistan</i>

- Assisted hospital visitors by providing information, addressing inquiries, and guiding them to appropriate departments.
- Earned management recognition for initiating and organizing patient engagement activities to improve the well-being of long-term patients.
- Collaborated with supervisors to complete daily assignments and ensure the smooth execution of tasks.