Amna Hassan

Rawalpindi, Pakistan

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https://github.com/Amna-Hassan04 | https://hashnode.com/@AmnaHassan

Summary

Aspiring Software Engineer with practical experience in AI development and open-source project leadership and research. Successfully maintained the SereniFy project in GirlScript Summer of Code, implementing AI-powered features and mentoring contributors. Trained thousands in AI app development and recognized as a leader in technical education. Eager to leverage AI expertise and leadership skills to contribute to innovative software solutions.

Education

University of Engineering and Technology, Taxila   **Sep 2022 - Jun 2026**
BS, Computer Science (GPA: 3.74/4.0)

Achievements

- **Top 50 Project Administrator Award - GirlScript Summer of Code** | Chosen as a project administrator for my open-source project SereniFy in a renowned program featuring over 42,000 contributors and only 200 project administrators. Ranked as the 18th best project administrator, my achievement was highlighted on their LinkedIn page, which has a following of 120K+.
- **Winner at Harvard University's CS50 Puzzle Day Twice** | Led a team that Won Harvard University's CS50 Puzzle day by solving 9/9 logical puzzles in years 2024 and 2025
- **Ranked among Top 98 teams in Google AI for Impact Hackathon APAC** | In Google AI for Impact hackathon, organized by Hack2skill platform, around 22,000 professional participated and 2000+ projects were submitted.
  My Project "Equalist" was aimed at making the internet more accessible for differently abled people by making a google chrome extension that gives screen reading options, brightness options also converts voice to sign language
- **Research Mentorship Scholarship** | Received a 4-month research scholarship to work under an assistant professor at UC Irvine and author my first research paper.
- **Finalist in ClauDe Hackathon (Stockholm, Sweden)** | Secured 3rd position among 469 members with the project Gluco Guide, an app for diabetes management.
- **Top 9% in GMTK Game Jam 2024** | Ranked #1109 overall out of 35,000+ contestants with the game "Clever Pun Related to Capitalism", scoring #628 in style (4.07/5).
- **Finalist in Codess.cafe Hackathon** | Achieved 3rd position with SereniFy, an app providing personalized mental tranquility through journaling, breathing exercises, relaxing games, and AI-driven anxiety management.
- **Prime Minister Laptop Scheme Awardee** | Received a laptop for achieving a high GPA of 3.74 from the Higher Education Commission in Pakistan.
- **100% Merit Scholarship Recipient** | Awarded a full scholarship for outstanding grades at Punjab Group of Colleges during 11th and 12th grade.
- **Featured on a top tech podcast** | Invited as a guest on Cillers Podcast (World-Class Hackathons), where top tech professionals share their experiences in hackathons, new technologies, and software development practices.

Experience

GirlScript Summer Of Code | *Open Source Project Maintainer and Mentor*   **Oct 2024 - Present**
- Led SereniFy project for GirlScript Summer of Code Extended 2024, managing 32 contributors and resolving 77 issues.
- Created guided meditations, breathing exercises, and progress tracking features using Streamlit, integrated AI with Claude AI for personalized recommendations, enhancing user engagement and satisfaction
- Reviewed and merged 77 PRs, ensuring code quality and stability.

UC Irvine | *Student Researcher*   **Apr 2024 - Jun 2024**
- Awarded a 4-month scholarship to be mentored by an assistant professor at UC Irvine to write my first research paper.
- Authored a project-based research paper on LLMs in Game Development. The work was featured on the professor's personal website, and he also wrote a blog post about it in his newsletter.

iCodeGuru | *Volunteer Moderator & Trainer*   **May 2024 - Present**
- Served as a trainer in a large-scale Generative AI development course, teaching AI App Development to over 25,000 participants via live Zoom sessions (over 5 courses conducted).
- Led multiple workshops for underprivileged students on Data Structures & Algorithms, GRE preparation, AI Development, and International Scholarship Opportunities.

Volunteer in Tech Communities | *Trainer, Guest Speaker*   **Sep 2023 - Present**
- Selected twice as Section Leader for Stanford University's Code in Place course; taught Python to over 30 international students across 12+ hours of instruction.

- As Women in Tech Lead for the Google Developer Student Club (2023–2024), organized and led in-person workshop on game development basics, reaching 70+ students.
- Delivered a workshop on Meta Hacker Cup as a guest speaker at Taxillians Robotics and Automation Society, UET Taxila, enhancing students' understanding of competitive programming competitions such as Meta Hacker Cup
- Gave a 15-minute talk on game development basics to over 50 students as a guest speaker at Microsoft Learn Student Ambassadors Club, UET Taxila, sparking interest in game development

Cillers | *Speaker on International Podcasts* **Jan 2025**
- Participated in a podcast hosted by Per Lange, sharing insights from leading global tech companies to help listeners build better software systems
- Delivered a 1-hour talk on the Cillers Podcast (World-Class Hackathons), sharing strategies for winning hackathons, highlighting experiences from events like the Google AI for Impact Hackathon and Harvard's CS50 Puzzle Day, and outlining effective approaches for ideation, prototyping, and presenting, while advocating for a proven mentorship structure

Technical Skills

- **Programming Languages:** Python, Javascript, SQL, C#, C++, Java
- **Databases:** MySQL, SQL Server, Supabase, PostgreSQL, SQLite, MongoDB
- **Game Engine:** Unity Engine
- **Frameworks:** Langflow, ReactJS, NodeJS, Hugging Face, Streamlit
- **Libraries:** Numpy, Pandas

Research Work

- Amna Hassan. Automated Unity Game Template Generation from GDDs via NLP and Multi-Modal LLMs. A framework that automatically transforms Game Design Documents into functional Unity game templates using NLP and multi-modal LLMs.
- Amna Hassan, Aneeqa Batool, Hamail Noor. Multi-Regional Fracture Detection in X-rays Using CNN with EfficientNetB0, MobileNetV2, and ResNet50. This study explores multi-regional fracture detection in X-rays using CNNs and transfer learning with EfficientNetB0, MobileNetV2, and ResNet50, achieving high accuracy on the FracAtlas dataset.

Projects

Equalist

- Co-developed "Equalist," a Chrome extension that enhances web accessibility for deaf and blind users by integrating text-to-speech, real-time sign language conversion (ASL & Indian), multi-language translation, and AI-based content summarization
- Integrated Google APIs (Text-to-Speech, Cloud Translation, YouTube Data API) and leveraged MediaPipe, Gemini, and Jan AI for gesture recognition, summarization, and media processing.
- Improved access to educational content for disabled users through intuitive UI/UX and real-time assistive features, recognized among the top 98 projects at the Google AI for Impact Hackathon.

Falcon Songbird

- Streamlined resume creation by developing a comprehensive application featuring an automated resume builder to generate tailored, ATS-compliant documents, along with a manual resume assistant to upload, refine, and enhance resumes.
- Facilitated skill development through the implementation of a course creator tool, utilizing Falcon AI LMs to enable users to improve professional skills via interactive, hands-on exercises tailored to their individual learning paths.
- Enhanced job matching by designing a scoring utility to evaluate resumes against job descriptions, providing users with feedback and actionable insights for optimization.

FlagShip Precision Care

- Developed the FlagShip framework to enhance patient care for neurodegenerative disease patients through the propagation of 30 agents, enabling real-time observation of treatment outcomes and improving decision-making.
- Utilized MindSB for precision care assignments and integrated GPT Strawberry for outcome projections, allowing simultaneous predictions for multiple treatment scenarios and significantly increasing evaluation accuracy.
- Enabled physicians to avoid ineffective therapies for neurodegenerative disease patients by predicting treatment outcomes, thereby reducing unnecessary costs and facilitating a more personalized and efficient healthcare approach.

Clever Pun to Capitalism

- Ranked in the top 9% out of 35,000+ contestants in GMTK Game Jam 2024 (#1109 overall), with our 2D hand-crafted game "Clever Pun Related to Capitalism" scoring #628 in style (4.07/5); contributed to game concept, custom art, and music.
- worked as Unity Programmer, managing all game menus and guiding first-time Unity users, streamlining the development process and supporting team success with 42 ratings from participants.

Gluco Guide

- Developed an innovative app designed to help patients manage diabetes by offering personalized recipes and exercise recommendations based on current sugar levels.
- Used Claude AI to generate responses and Streamlit to make the front end of the app.

IELTS™

Test Report Form

	ACADEMIC

Centre Number	PK361	Date	22/JUL/2025	Candidate Number	501720

Candidate Details

Family Name	HASSAN
First Name(s)	AMNA
Candidate ID	3740556551910

Date of Birth	02/08/2004	Sex (M/F)	F	Scheme Code	Private Candidate

Country or Region of Origin	
Country of Nationality	PAKISTAN
First Language	URDU

Test Results

Listening	9.0	Reading	8.0	Writing	7.0	Speaking	8.0	Overall Band Score	8.0	CEFR Level	C1

Administrator Comments

Recognising organisations must verify this score at ielts.org/verify

Validation stamp

VALIDATION STAMP
IELTS
CAMBRIDGE ENGLISH/BRITISH COUNCIL/IDP IELTS
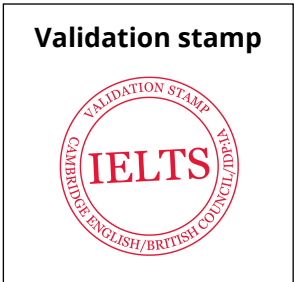
Date	23/07/2025	Test Report Form Number	25PK501720HASA361A
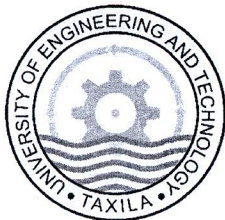
University of Engineering and Technology
Taxila, Pakistan

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SEMESTER GRADE SHEET

FIRST SEMESTER EXAMINATION IN B.S COMPUTER SCIENCE

Registration No:	2022-UET/CS-12
Student Name:	AMNA HASSAN
Father's Name:	HASSAN FAROOQ

Semester:	Fall -2022
Duration:	26-09-2022 to 17-02-2023

Course Code	Course Title	Credit Hours	Letter Grade	Numerical Grade	Grade Points
CS-101	Introduction to Information and Communication Technologies [Theory]	(2)	A	4.0	8.00
	Introduction to Information and Communication Technologies [Practical]	(1)	A	4.0	4.00
CS-102	Programming Fundamentals [Theory]	(3)	A	4.0	12.00
	Programming Fundamentals [Practical]	(1)	A	4.0	4.00
MT-101	Calculus and Analytical Geometry	(2)	B+	3.3	9.90
EG-101	English Composition and Comprehension	(3)	A	4.0	12.00
EL-101	Basic Electronics [Theory]	(3)	B+	3.3	6.60
	Basic Electronics [Practical]	(1)	B+	3.3	3.30

Semester Credits Attempted:	16	**SGPA:**	3.74
Semester Credits Earned:	16	**CGPA:**	3.74

Total Credits Attempted	:	16
Total Credits Earned	:	16
Degree Status	:	Incomplete
Date of Declaration of Result	:	18-04-2023
Date of Issue	:	23-05-2023

Checked By: _____

Assistant Controller of Examinations

	A	A-	B+	B	B-	C+	C	C-	D	F
Numerical Grade	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.0	0.0

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Pakistan

SEMESTER GRADE SHEET

SECOND SEMESTER EXAMINATION IN BS IN COMPUTER SCIENCE

Registration No:	2022-UET/CS-012	**Semester:**	Spring-2023
Name:	AMNA HASSAN	**Campus:**	Main (Taxila)
Father's Name:	HASSAN FAROOQ	**Duration:**	20-02-2023 to 21-07-2023

Course Code	Course Title	Credit Hours	Letter Grade
CS-103	Object Oriented Programming	3	A
CS-103-L	Object Oriented Programming Lab	1	A-
CS-104	Discrete Structures	3	B+
EG-102	Communication and Presentation Skills	3	A
MT-102	Probability Statistics	3	B
PK-101	Islamic Studies/ Ethics & Pakistan Studies	3	A

Semester Attempted Credit Hours: 16   **Semester Earned Credit Hours: 16**   **SGPA : 3.66**

Total Attempted Credit Hours:	32
Total Earned Credit Hours:	32
CGPA :	3.70
Degree Status:	Incomplete
Date of Issue:	21-01-2025

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SEMESTER GRADE SHEET

THIRD SEMESTER EXAMINATION IN BS IN COMPUTER SCIENCE

Registration No: 2022-UET/CS-012

Name: AMNA HASSAN

Father's Name: HASSAN FAROOQ

Semester: Fall-2023

Campus: Main (Taxila)

Duration: 21-08-2023 to 29-12-2023

Course Code	Course Title	Credit Hours	Letter Grade
CS-201	Data Structures and Algorithms	2	A
CS-201-L	Data Structures and Algorithms Lab	1	A
CS-202	Digital Logic Design	3	B+
CS-202-L	Digital Logic Design Lab	1	A
EG-201	Technical & Business Writing	3	A
MT-201	Linear Algebra and Differential equations	3	A-
UE-201	Financial Management	3	A-

Semester Attempted Credit Hours: 16

Semester Earned Credit Hours: 16

SGPA : 3.76

Total Attempted Credit Hours: 48

Total Earned Credit Hours: 48

CGPA : 3.72

Degree Status: Incomplete

Date of Issue: 21-01-2025

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SEMESTER GRADE SHEET

FOURTH SEMESTER EXAMINATION IN BS IN COMPUTER SCIENCE

Registration No:	2022-UET/CS-012	**Semester:**	Spring-2024
Name:	AMNA HASSAN	**Campus:**	Main (Taxila)
Father's Name:	HASSAN FAROOQ	**Duration:**	08-01-2024 to 24-05-2024

Course Code	Course Title	Credit Hours	Letter Grade
CS-203	Operating Systems	2	A
CS-203-L	Operating Systems Lab	1	B+
CS-204	Introduction to Software Engineering	3	A-
CS-205	Computer Architecture	2	A
CS-205-L	Computer Architecture Lab	1	A
CS-207	Web Engineering	3	A
MT-202	Numerical Computing	3	C
CS-206	Introduction to Database Systems	3	A
CS-206-L	Introduction to Database Systems Lab	1	A

Semester Attempted Credit Hours: 19　　　**Semester Earned Credit Hours: 19**　　　**SGPA : 3.60**

Total Attempted Credit Hours:	67
Total Earned Credit Hours:	67
CGPA :	3.69
Degree Status:	Incomplete
Date of Issue:	21-01-2025

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SEMESTER GRADE SHEET

FIFTH SEMESTER EXAMINATION IN BS IN COMPUTER SCIENCE

Registration No: 2022-UET/CS-012   **Semester:** Fall-2024

Name: AMNA HASSAN   **Campus:** Main (Taxila)

Father's Name: HASSAN FAROOQ   **Duration:** 19-08-2024 to 27-12-2024

Course Code	Course Title	Credit Hours	Letter Grade
CS-301	Human Computer Interaction	3	A
CS-302	Theory of Automata & Formal Languages	3	A
CS-303	Parallel & Distributed Computing	3	A
CS-304	Game Programming	3	A
CS-305	Data Communication & Networks	3	A-
CS-305-L	Data Communication & Networks Lab	1	B+
CS-306	Design and Analysis of Algorithms	3	A

Semester Attempted Credit Hours: 19   **Semester Earned Credit Hours: 19**   **SGPA : 3.92**

Total Attempted Credit Hours: 86

Total Earned Credit Hours: 86

CGPA : 3.74

Degree Status: Incomplete

Date of Issue: 26-02-2025

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