

# Furqan Nasir

---

[furqannr@gmail.com](mailto:furqannr@gmail.com) • +92 (333) 957-9504 • [GitHub](#) • [LinkedIn](#) • [LeetCode](#)

## Professional Summary

---

I am an academic and researcher with a background in software engineering and a strong interest in graph theory. I have experience teaching advanced software engineering courses, mentoring student projects, and conducting research in link prediction and complex networks. Proficient in Python and C++, I have worked on integrating generative AI and blockchain to create practical solutions for healthcare and contract management.

## Education

---

### Abasyn University ([See here](#))

MS Computer Science. (CGPA: 3.43/4.00)

Thesis: Comparative Analysis of Link Prediction in Social Networks

Peshawar, Pakistan

Jan 2018- Aug 2021

### City University of Science and Information Technology ([See here](#))

Bachelor of Software Engineering. (CGPA: 3.45/4.00)

Thesis: Lone Warrior(Game)

Peshawar, Pakistan

Sep 2011- Mar 2016

## Achievements

---

- Got 7.5 Score in IELTS with Listening: 9, Reading: 8, Speaking: 6.5, Writing: 6. ([See here](#))
- 100% Merit Scholarship for outstanding academic performance from 2nd semester onwards during Bachelors at City University.
- Achieved 2nd position in the BSE(Hons) graduating batch in 2011-2015. ([See here](#))
- Secured the first position in the Software Project Exhibition at VisioSpark 2015 among 22 national universities.
- Successfully mentored over 10 final-year students on capstone projects, with significant improvements in their project quality and outcomes.
- Head organizer of Speed Programming competitions at City University, Peshawar(IT Society).

## Publications

---

### Conference Paper

Gul, H. *et al.* (2021) *Link prediction using double degree equation with mutual and popular nodes, SpringerLink*. Available at: ([Link](#))

### Journal Article

Nasir, F. *et al.* (2021) *Comparitive analysis of link prediction in complex networks: Computer Science & IT Journal Article* | IGI Global Scientific Publishing. Available at: ([Link](#))

## Experience

---

**City University of Science and Information Technology**  
**Lecturer**

Peshawar, Pakistan  
Sep 2021 – Present

- Delivered lectures on Software engineering courses including but not limited to Software Requirements and Specifications(CSC-417), Software Re-Engineering(CSC-444), Software Engineering Economics(CSC-223), Software Project Management(CSC-409), Software Construction and Development(CSC-331), Theory of Automata(CSC-221), and Fundamentals of Programming(CSC-110).
- Delivered and updated course syllabi to align with HEC curriculum and industry trends.
- Mentored bachelor students on academic projects for their final year projects.
- Participated in administrative responsibilities such as course scheduling, assessment planning, and accreditation processes.

**City University of Science and Information Technology.**  
**Lab Engineer**

Peshawar, Pakistan  
Oct 2019 – Feb 2021

- Prepared lab materials, including programming exercises to facilitate hands-on learning.
- Delivered instructions and demonstrations to explain functional programming concepts and object-oriented programming concepts.
- Monitored and guided students during lab assignments, offering additional resources and clarification as needed.
- Collaborated with lecturers to ensure alignment of lab sessions with curriculum and course objectives.

---

## **Skills**

**Languages:** C++, Javascript, Python.

**Version Control:** Git, Github.

**Data Visualization Libraries:** Matplotlib, Seaborn.

**Tools:** MATLAB, LaTeX/Overleaf, Visual Studio Code, Dev C++, Google Colab.

---

## **International Hackathons**

**AI Agents Hack with LabLab and MindsDB**  
**Project:** SurgiAI ([See here](#))

Lablab  
Sep 2024

- Pre-Surgery: Gather information to prepare a comprehensive report for surgical preparation.
- During Surgery: Utilizes voice commands of surgical teams if they need information regarding patient history, or if they need to consult AI on any specific surgery procedure in real time.
- Post-surgery: Records patients' conditions during surgery and generates a detailed final report.
- Role: Worked on voice command input using Vosk model in during surgery module, implemented wake functionality to only pass relevant information to CrewAI and generate results.

**Generative AI Hackathon with IBM Watsonx**  
**Project:** LegalChain ([See here](#))

Lablab  
Aug 2024

- LegalChain combines two powerful concepts: Legal and Chain
- Legal Excellence: Offers tools for contract drafting, clause suggestions, compliance monitoring, contract reviews, comparisons and legal document categorization.
- Blockchain Innovation: Transforms traditional contracts into blockchain-based smart contracts for improved security, transparency and efficiency.
- Role: Worked on integrating blockchain with legal documents.

## **Certifications**

---

- [Generative AI Application Developer Certificate](#)
- [Instructor Cisco Networking Academy](#)
- [Google Project Management: Specialization](#)
- [Programming with Javascript](#)
- [Introduction to Front-End Development](#)
- [Product Management: An Introduction](#)