Tashfeen, Ahmad

Mathematics & Computer Science

tashfeen@ou.edu
From: tashfeen.org

EDUCATION

University of Oklahoma — Norman, OK
Doctor of Philosophy in Computer Science; GPA: 3.9 — *Graduation: TBA*

University of Oklahoma — Norman, OK
Master of Science in Computer Science; GPA: 3.9 — *Graduation: December 2021*

Oklahoma State University — Stillwater, OK
Bachelor of Science in Computer Science; GPA: 3.9 — *Graduation: May 2019*

Oklahoma State University — Stillwater, OK
Bachelor of Science in Mathematics; GPA: 3.9 — *Graduation: May 2019*

SKILLS

Concepts: Artificial Intelligence, Cryptography, Recreational Maths, Object-Oriented and Functional Programming.
Programming Languages: C/C++, Java, Python, JavaScript, C#, ELisp, and exposed to PHP, ML & PROLOG.

WORK EXPERIENCE

University of Oklahoma — Norman, OK
Teaching Assistant (TA) — *Aug 2020*

- Created & graded assignments, held office hours and helped students etc. Classes I have been a TA for:
- Mach. Learning, Intelligent Robotics, Distributed Operating Sys., Discrete Math(s) & Cryptography.

Paycom — Oklahoma City, OK
Software Developer Intern — *May 2019 – Aug 2019 & May 2018 – Aug 2018*

- Developed and implemented an algorithm for detecting and cleaning unused Cascading Style Sheets.
- Designed the back-end coding-architecture (an abstract class in C#) for a quicker search system in the company's database using Elasticsearch.
- Helped in automating a well-defined procedure the employees went through to log in their billable hours by extending and refactoring pre-written PHP code.

RESEARCH EXPERIENCE

Satellite to Ground Quantum Key Distribution — OU, Norman, OK
Fall 2021 — *Aug 2021 – Dec 2021*

- Studied theoretical foundations of quantum mechanics, e. g., Hilbert spaces etc.
- Presented the famous paper that lead to the launch of Chinese quantum satellite: *Micius*.

Integer Factorisation with Feed-forward Neural Networks — OU, Norman, OK
Summer 2021 — *May 2021 – Aug 2021*

- Experimented empirically with semi-primes p of order 2^{20}.
- Implemented a minimal Feed-forward network that could perform factorisation of aforementioned p.

LEADERSHIP & HONOURS

Summa Cum Laude — OSU, OK
Institutional Honours for Computer Science and Mathematics — *May 2019*

Outstanding Senior Award — OSU, OK
Computer Science Department — *Aug 2018 – May 2019*

Student Government Association — OSU, OK
President — *May 2015 – Aug 2016*