Tehsein Firoze Akhtar

MSc in Computer Science Student

A master's student in computer science who is driven to develop logical and innovative software and data-related solutions. As a young aspiring engineering professional, I've discovered that I can go a long way by honing my skills in the ever evolving and exciting "tech" industry. I also have the capacity to work well in a variety of groups and excellent communication abilities, as well as a strong desire to learn.

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EDUCATION

MSc in Computer Science (Conversion)
University College Dublin

09/2022 - 01/2024

Academic performance
- 3.58/4.2 GPA

Electronics and Communication Engineering B-Tech
Vellore Institute of Technology

07/2018 - 05/2022

Academic performance
- 8.38/10 CGPA

PROJECTS

Smart City Explorer
- "Developed 'Smart City Explorer,' a data-driven web application designed to create personalized Manhattan itineraries based on user preferences and real-time data, as part of a summer research practicum. Spearheaded backend development using Node.js and managed DevOps tasks including server deployment, MySQL configuration, and performance monitoring.

Dublin Bikes Web Application
- Deployed a web application resembling the Dublin Bikes website on AWS, leveraging an EC2 server and RDS. Developed a Flask backend, integrated the Google Maps API, and constructed an ML model based on data obtained from the Dublin Bikes API.

Asteroids Game on Java
- Utilizing JavaFX, an asteroid arcade game was crafted. The game included multiple moving asteroids, projectiles, alien ships, and a dynamic high score system.

Post Quantum Cryptography and a demonstration of Quantum key distribution using Python ⬈
- In this project, we simulate a secure cryptography system through quantum key distribution using the BB84 protocol. Furthermore, a Python program was developed to enhance the protocol and allow the transmission of data.

User-based RPG using Python on Jupyter Notebook
- The goal of this project is to employ OOPS principles to create a user-based role-playing game (RPG) with various classes.

WORK EXPERIENCE

Demonstrator
University College Dublin

09/2023 - Present

Achievements/Tasks
- Instruct in foundational and advanced programming topics including C, Python, and Scheme. Cover essentials like variables, loops, functions, object-oriented and functional programming.

SKILLS

- Programming Languages - Python, C , C++ , Java, JavaScript
- SQL (MySQL, PostgreSQL, NoSQL)
- Web frameworks - Node, Express, Flask, Django, React
- AWS - EC2, RDS
- Unix, Git, CI/CD
- Problem Solving
- Time Management

ORGANIZATIONS

Public Relations Head - VIT Music Club
Involved in managing and leading all club related activities which include various events with large contracts. Performed in various institutes across the country while representing the college and winning various competitions

Anokha - Volunteer (NGO)
Anokha is a non-government organisation in Vellore, India directly benefitting more than thousands of children through various live welfare projects on education, healthcare, livelihood and women empowerment

CERTIFICATES

The Complete Web Developer Course 2.0 (UDEMY) ⬈

IoT (Internet of Things) Wireless & Cloud Computing Emerging Technologies (Coursera) ⬈

Mathematics for Machine Learning: Linear Algebra (Coursera) ⬈

Data Structures by University of California San Diego & HSE University (Coursera) ⬈

Basic Statistics by University of Amsterdam ⬈

LANGUAGES

English
Native or Bilingual Proficiency

Hindi
Professional Working Proficiency