

Tehsein Firoze Akhtar

MSc in Computer Science Student

As a master's student in computer science, I possess a keen interest in crafting logical and cutting-edge software solutions, making me a suitable fit for the role of a **Software Engineer**. Driven by curiosity, I stay updated with the evolving tech sector, offering innovation and current expertise. My strong communication skills and ability to collaborate in diverse teams highlight my ambition and eagerness to learn in the technology domain.

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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 (Summer Research practicum) (06/2023 - 08/2023)

- Designed a data-driven web application that curates personalized Manhattan itineraries, leveraging user preferences and real-time data, leading to a 30% increase in user engagement.
- Skills obtained : **Web Application Development, Backend Development, Node.js, Database Configuration (MySQL), Server Deployment, DevOps.**

Dublin Bikes Web Application (01/2023 - 05/2023)

- Deployed a web application resembling the Dublin Bikes website on AWS, leveraging an EC2 server and RDS.
- Skills obtained : **AWS Proficiency, Backend Development, API Integration, Machine Learning**

Asteroids Game on Java (01/2023 - 05/2023)

- Developed a fully functional asteroid game with interactive UI.
- Skills obtained : **Java and JavaFX Development, Game Design.**

Post Quantum Cryptography (01/2022 - 05/2022) [↗](#)

- A simulation of a secure cryptography system through quantum key distribution using the BB84 protocol and with further enhancement to allow transmission of data.
- Skills Obtained: **Security assessments, Threat modeling, Encryption expertise, Security requirements analysis.**

WORK EXPERIENCE

Demonstrator

University College Dublin

09/2023 - Present

Achievements/Tasks

- Serving as an instructor in both foundational and advanced programming disciplines and covered essentials like software development, data structures and algorithms, object-oriented and functional programming.
- Skills obtained : **Multi-Language Proficiency (C#, C, C++, Python, Scheme), Mentoring**

SKILLS

Programming Languages - Python, C, C++, Java, JavaScript, C#

SQL (MySQL, PostgreSQL, NoSQL) Software Development

AWS, Unix, Git Docker Kubernetes CI/CD Source Control

OWASP, CWE, SEI CERT REST API Gitflow

IPSec, TLS, PGP Puppet, Chef

Unit testing, Functional testing, and End-to-End testing

Proactive Thoughtful Risk-Taking Problem Solving

ACCOLADES

Placed 3rd at SPANDAN'19 in the Battle of the Bands competition held at JIPMER while representing VIT.

Placed 3rd at MCC Cul'Ah 2019 in the Battle of the Bands competition while representing VIT

EXTRA CURRICULAR

Public Relations Head VIT Music Club

Transferable Skills : Leadership, collaboration, decision-making, teamwork and organizational skills.

Volunteer (NGO) Anokha

Transferable Skills : Cultural sensitivity and awareness, communication, project management and building relationships

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