

# Maanas Talwar

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## EXPERIENCE

### MICROSOFT

#### Software Engineer, Azure Networking

JUNE 2023 - PRESENT

- Contributing to advancing a distributed and asynchronous orchestration platform, empowering cross-functional teams to author, execute, and automate script workflows.

#### Software Engineer Intern, Azure Networking

MAY 2022 - JUL 2022

- Designed a scalable and reliable solution for migrating a distributed Azure cloud infrastructure service to an automatically managed containerized workflow.
- Implemented an automated CI/CD workflow for its graceful updates.
- Engineered a self-sufficient, secure and agnostic template facilitating reduced service downtime.

### GOOGLE SUMMER OF CODE

#### Student Developer, SCoRe Lab

MAY 2021 - AUG 2021

- Developed a distributed scanning system for detecting malicious threats embedded in files leveraging open-source software.
- Formulated a test suite to automate application validation workflows.

### NATIONAL INFORMATICS CENTRE

#### Data Science Intern, Open Technology Group

MAY 2020 - AUG 2020

- Developed a system to automatically identify and download the latest releases of installed tools.

## EDUCATION

### NETAJI SUBHAS UNIVERSITY OF TECHNOLOGY

Delhi, India

Bachelor of Technology in Computer Science and Engineering

CGPA: 8.99 / 10.0

AUG 2019 - MAY 2023

Ranked among the top 3% of the department

### AMITY INTERNATIONAL SCHOOL, MAYUR VIHAR

Delhi, India

All-India Senior School Certificate Examination (CBSE), Class XII

PCT: 95.4%

APR 2019

## AWARDS AND RECOGNITION

Scholarship recipient	Two-time NSUT academic scholarship recipient for top 5% students	2019 - 2023
First Runner up	The <a href="#">Big Tech Project</a> International Metaverse Hackathon organised by <a href="#">DP World</a>	OCT 2022
HackMIT 2022 invite	Invited to attend <a href="#">HackMIT</a> 2022 in person among 1000 international students	OCT 2022
Hack Harvard 2022 invite	Invited to attend <a href="#">Hack Harvard</a> 2022 in person among various international students	OCT 2022
SIH'22 Finalist	<a href="#">Smart India Hackathon</a> 2022 finalist from teams all over India	JUN 2022
State Topper of Delhi	<a href="#">National Level Science Talent Search Examination</a> 2019	2019
Gold Medalist	Seventh <a href="#">Amity International Olympiad</a> for Mathematics	2018

## SELECTED PROJECTS

#### Natural vs AI-image detector

JAN 2023 - MAY 2023

Neural network powered Natural and AI-generated images state-of-the-art differentiator pipeline.

#### Virtual Doctor

AUG 2022 - DEC 2022

Application to predict the early onset of heart diseases leveraging deep learning, ensuring security and privacy.

#### NSUTx - 5000+ downloads

OCT 2020 - MAR 2021

University's cross-platform application to provide content accessibility and analytics to students.

## PUBLICATIONS

Anav Chaudhary, **Maanas Talwar**, Avil Goel, Gaurav Singal, Riti Kushwaha; **De-Fence: LoRa Based Hop-To-Hop Communication**, Fourteenth [International Conference on Contemporary Computing](#), pp. 629-637, AUG 2022

## SKILLS

Programming Languages: Python | C++ | C | Bash | Dart | MATLAB | Javascript | Kotlin

Frameworks and Tools: Microsoft Azure | Kubernetes | Docker | Linux | OpenCV | OpenGL | Flask | Flutter

## RELEVANT COURSEWORK

Algorithm Design	Cloud Computing	Cryptography Techniques	Service Oriented Architecture
Machine Learning	Computer Vision	Compiler Construction	Natural Language Processing
Operating Systems	Theory of Computation	Probability & Statistics	High-Performance Computing

## VOLUNTEER EXPERIENCE

Mentor	<a href="#">FOSS Overflow Open Source Program</a> , IIT Bhilai	DEC 2022 - FEB 2023
Mentor	<a href="#">Google Summer of Code</a> 2022 with <a href="#">SCoRe Lab</a>	MAY 2022 - SEPT 2022
App Development Head	International Organisation of Software Developers, NSUT	MAY 2021 - MAY 2022
Director, Content	Crosslinks: The Student and Public Relations Society of NSUT	MAY 2021 - MAY 2022