

# Maanas Talwar

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## EXPERIENCE

### MICROSOFT

MAY 2022 - JUL 2022

*Software Engineer Intern, Azure Networking*

- 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

MAY 2021 - AUG 2021

*Student Developer, SCoRe Lab*

- 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

MAY 2020 - AUG 2020

*Data Science Intern, Open Technology Group*

- Developed a system to automatically identify and download 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

<b>Natural vs AI-image detector</b>	JAN 2023 - MAY 2023
Neural network powered Natural and AI-generated images state-of-the-art differentiator pipeline.	
<b>Virtual Doctor</b>	AUG 2022 - DEC 2022
Application to predict the early onset of heart diseases leveraging deep learning, ensuring security and privacy.	
<b>NSUTx</b> - 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	Docker	Kubernetes	Linux	OpenCV	OpenGL	Git	Flask
	Arduino	ClamAV	Flutter	Firebase	Bootstrap	Node.js	LaTeX	

## 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
Mentor	Guided underserved NSUT students for interview preparations	AUG 2021 - MAY 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