Maanas Talwar

EMAIL: maanastalwar1@gmail.com   WEBSITE: maanas-talwar.github.io

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: 8.94 / 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 Big Tech Project International Metaverse Hackathon organised by DP World	OCT 2022
HackMIT 2022 invite	Invited to attend HackMIT 2022 in person among 1000 international students	OCT 2022
Hack Harvard 2022 invite	Invited to attend Hack Harvard 2022 in person among various international students	OCT 2022
SIH'22 Finalist	Smart India Hackathon 2022 finalist from teams all over India	JUN 2022
State Topper of Delhi	National Level Science Talent Search Examination 2019	2019
Gold Medalist	Seventh Amity International Olympiad 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 (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	FOSS Overflow Open Source Program, IIT Bhilai	DEC 2022 - FEB 2023
Mentor	Google Summer of Code 2022 with SCoRe Lab	MAY 2022 - SEPT 2022
Mentor	Guided underserved NSUT students with 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