

# Divyanshu Talwar

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## WORK EXPERIENCE

### Goldman Sachs

#### Associate, Resilience Engineering

Jan 2022 - Present

Engineering applications to catalog, test, and discover operational dependencies, facilitating comprehensive recovery plan creation for effective business disruption risk mitigation.

Areas: Java, Python, Bash, Kubernetes, SQL, MongoDB.

#### Analyst, Technology Risk

May 2019 - Dec 2021

Engineered solutions for fast and reliable security incident identification and triage.

Areas: Python, Bash, Kafka, ksqldb, AWS.

### Indraprastha Institute of Information Technology (IIIT), Delhi

#### Teaching Assistant, Probability and Statistics

Jan 2019 - May 2019

Held weekly tutorials and office hours, helped prepare and grade assignments and exams.

#### Undergraduate Researcher

Jan 2018 - May 2019

Developed novel solutions for and using sparse-matrix imputation, achieving state-of-the-art results. Advisor: [Dr. Angshul Majumdar](#)

#### Undergraduate Researcher

Dec 2017 - Nov 2018

Worked on non-adversarial generative solutions, using disentangled latent representations, for facial images. Advisor: [Dr. Saket Anand](#)

## EDUCATION

### IIIT Delhi

#### Bachelor of Technology in Computer Science and Engineering

CGPA: 9.84/10

New Delhi, India

Aug 2015 - May 2019

Ranked among the top 1% of the institute.

## PUBLICATIONS

Divyanshu Talwar, Aanchal Mongia, Emilie Chouzenoux, Angshul Majumdar; [Binary Matrix Completion on Graphs: Application to Collaborative Filtering](#). *Digital Signal Processing* Vol. 122, 103350 (2022).

Divyanshu Talwar, Aanchal Mongia, Debarka Sengupta, Angshul Majumdar; [AutoImpute: Autoencoder based imputation of single-cell RNA-seq data](#). *Scientific Reports, Nature* Vol. 8, 16329 (2018).

## SELECTED PROJECTS

<a href="#">ShakaLakaBoomBoom</a>	3D scene generation with inflated 2D sketches, maneuvered using hand-gestures.	2019
<a href="#">Parallel DFS</a>	CUDA C++ implementation of the parallel DFS algorithm offering a $1.75\times$ speedup.	2018
<a href="#">Mapbots</a>	Mapping rooms using an ultrasonic sensor ring mounted on an autonomous bot.	2016

## SKILLS

Programming:	Python, C, C++, Java, Bash, C#, MATLAB, JavaScript.
Frameworks and Tools :	PyTorch, CUDA, Kafka, ksqldb, Kubernetes, SQL, MongoDB, OpenGL, Unity.

## AWARDS AND RECOGNITION

Dean's List for academic excellence awarded in all years at IIIT Delhi.	2016 - 2018
First runner up at <a href="#">Code-Off</a> : All-India Hackathon with over 350 participating teams.	Oct 2017
Country topper at the Third Amity International Olympiad for Physics.	May 2014

## VOLUNTEER EXPERIENCE

Mentored underserved college students, assisting them with interview preparations.	Sept 2022 - Mar 2023
Representative for the computer science class at <a href="#">Student Senate</a> , IIIT Delhi.	Apr 2018 - May 2019
Coach to <a href="#">Team Victorious Secret</a> , providing guidance throughout their <a href="#">RGSoc</a> journey.	Jul 2017 - Sept 2017
Facilitated mathematics and science tutorials for underserved school students.	May 2016 - Jun 2016

## RELEVANT COURSEWORK

Machine Learning	GPU Computing	Computer Graphics	Algorithm Design	Virtual Reality
Theory of Computation	Linear Algebra	Probability & Statistics	Security Analysis	Portfolio Management

## INTERESTS AND HOBBIES

Puzzles, Tabla, Bonsai care and Yoga.