

# SHREY TRIPATHI

International Institute of Information Technology, Bangalore

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## Education

**International Institute of Information Technology, Bangalore**

**Aug 2019 – Present**

*Integrated Masters in Technology, Computer Science and Engineering*

*CGPA: 3.06/4.00*

## Experience

**NSM Nodal Center, IIT Madras**

**May 2022 – Present**

*Research Intern*

- Working on accelerating sparse Deep Neural Networks (DNNs) using GPUs

**Web Science Lab, IIIT Bangalore**

**Jan 2021 – May 2021**

*Student Developer*

- Built the first version of a Capacity Based Access Control (CBAC) portal for the Indian Urban Data Exchange (IUDX) framework, under the supervision of [Professor Srinath Srinivasa](#).
- Successfully developed the basic functionalities from scratch: user authentication, world initialization, role selection, role modeling, and role(privilege)-based data access.

## Mentorship

**Teaching Assistant**

**August 2022 – Present**

*Software Engineering*

*IIIT Bangalore*

- Interactive teaching and tutorial sessions on various topics relating to Software Engineering concepts and methodologies.

## Projects

**CryptoWill** | *React, SmartPy, TypeScript* | [Project Link](#)

**Aug 2021 — Oct 2021**

- CryptoWill lets users store their cryptocurrencies in a decentralized "will", so as to prevent their holdings from becoming dormant in case of loss of private keys or user demise. Worked on the project as a **Tezos India Fellow**.
- Contributed to the front-end of the application by developing the React app with Typescript, and then integrating it with the SmartPy endpoints and contract storage with the Taquito.js Javascript library.

**Just-post-it** | *Django, Javascript, AJAX, PostgreSQL* | [GitHub](#), [Demo](#)

**Aug 2020 — Sep 2020**

- Developed a full-stack web-based Twitter-like social networking application.
- Created a Rest API in Django, while connecting it to a PostgreSQL database.
- Used AJAX to implement a single-page application for the front-end that lets users like/unlike posts and edit their own posts in real-time without a page reload.

## Publications and Contributions

**Automated Application Processing**

- Sharma, E., Chakrabarti, S., [et al, including **Tripathi, S.**] (2022, In press) Automated Application Processing. *Sadhana, Indian Academy of Sciences*. Software Engineering Lab, International Institute of Information Technology Bangalore. [arXiv:2204.08695](https://arxiv.org/abs/2204.08695)

**Open Source Contributions**

- Contributions to open-source projects: [Open Library](#) (The Internet Archive), [TWLight](#) (The Wikipedia Library), and [Mathesar](#) (Center of Complex Interventions)

## Technical Skills

**Languages:** Python, Java, C, JavaScript, SQL, Solidity

**Technologies/Frameworks:** Django, Flask, Numpy, Pandas, Jupyter, Figma, Docker, Git

## Relevant Coursework

Data Structures and Algorithms, Operating Systems, Software Engineering, Database Systems, Computer Architecture, Programming Languages, Machine Learning, Theory of Computation, Cloud Computing, Computer Networks

## Achievements and Extracurriculars

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|------|--|
| 2022 | <b>Smart India Hackathon Winner</b> (MoE, Government of India); <b>Google Developer Student Club (GDSC) Lead</b> (2021-22); <b>GATE 2022 Qualified</b> (All India Rank 2899) |
| 2021 | <b>Tezos India Fellowship Awardee</b> (Tezos India); <b>LiFT Scholarship Awardee</b> (The Linux Foundation)  |
| 2020 | <b>Academic Excellence Award</b> (Academic years 2017-18 and 2018-19) (Airport School, Ahmedabad)  |
| 2017 | <b>NTSE Scholarship Awardee</b> (National Council of Educational Research and Training (NCERT))  |