

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) Manuscript under review. **Software Engineering Lab**, International Institute of Information Technology Bangalore. [arXiv: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 | Smart India Hackathon Winner (MoE, Government of India); Google Developer Student Club (GDSC) Lead (2021-22); GATE 2022 Qualified (All India Rank 2899) |
| 2021 | Tezos India Fellowship Awardee (Tezos India); LiFT Scholarship Awardee (The Linux Foundation) |
| 2020 | Academic Excellence Award (Academic years 2017-18 and 2018-19) (Airport School, Ahmedabad) |
| 2017 | NTSE Scholarship Awardee (National Council of Educational Research and Training (NCERT)) |