SHREY TRIPATHI

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Education

International Institute of Information Technology, Bangalore	**Aug 2019 – July 2024**
Integrated Masters in Technology, Computer Science and Engineering	*CGPA: 3.18/4.00*

Experience

MathWorks — **May 2023 – July 2023**

EDG Intern

- As an intern in the Engineering and Development Group (EDG), worked on re-designing the report generated by the Simulink Model Advisor, which identifies inaccurate or inefficient modeling conditions and configuration settings to improve simulation accuracy and efficiency.
- Used JavaScript to make the report visually appealing and interactive, and used object-oriented programming techniques to create a Reporter class using the MATLAB Report Generator, that defines the DOCX, PDF, and HTML reports.

Web Science Lab, IIIT Bangalore — **Jan 2021 – May 2021**

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 — **Aug 2022 – Dec 2022**

CS303 Software Engineering — *IIIT Bangalore*

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

Projects

Swasthya Suraksha: A streamlined ABDM framework | *React, Spring* | Report, Links — **Jan 2023 — May 2023**

- Swasthya Suraksha is a framework that acts as a trusted intermediary for seamless exchange of medical records of a patient given their consent, among different hospitals, without storing the health records.
- Contributed in creating the EHR format for health records across establishments, and in sharing the filtered EHR data on consent verification.
- Implemented EHR data sharing through a *dataPostUrl*, whenever a pre-consented establishment requests for the data of a specified patient.

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) Automated Application Processing. *Sadhana* **47**, 244 (*Indian Academy of Sciences*). Software Engineering Lab, International Institute of Information Technology Bangalore. doi.org/10.1007/s12046-022-02022-x

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: Java, Python, C, C++, JavaScript, SQL
Technologies/Frameworks: React, Django, Flask, Maven, Spring, Kubernetes, Figma, Docker, Git

Relevant Coursework

Data Structures and Algorithms, Operating Systems, Software Architecture, Database Systems, Software Testing, Software Production Engineering, Programming Languages, Machine Learning, Cloud Computing, Computer Networks

Achievements and Extracurriculars

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))