Samarpan Dutta

B.Tech. Polymer Science and Engineering,

Undergraduate (2nd year, 2st semester)

Expected graduation - 2023

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https://smrpn.github.io/
Github, Linkedin

Skills :

- Programming languages : Rust, Javascript/TypeScript, C++
- Frameworks/Libraries/Databases : Node, Mongo, Postgres, Mysql, Express, Rocket, Casbin, Tonic(gRPC), React

Education :

- B.Tech. Polymer Science and Engineering

    IIT Roorkee, 2019 - 2023 (expected), currently a sophomore.
- Bidhan Chandra Institution, 2019 (Class XII WBCHSE) Percentage - 85%
- St. Xavier's School, 2017 (Class X ICSE) Percentage - 92%

Interests : Backend Engineering, Distributed Systems, Authorization.

PORs : Web developer at AIChE IITR.

Projects :

- Crypto Estate -

    This is a full-stack web application that allows landowners to buy and sell their real-estate properties using crypto-currency. This was the submission for a hackathon. Github repo link Video
- Casbin-RS -

    An authorization library that supports access control models like ACL, RBAC, ABAC in Rust. Github repo link
- JSON-Adapter for Casbin-RS -

    Json Adapter is a json adapter for Casbin-rs. With this library, Casbin can load policy from a json format file or save policy into it with fully asynchronous support. Github repo link

Internships :

- SDE Intern StormyApp   (Oct 2020 - Jan 2020)
    - Worked on the entire frontend (NextJs).
    - Worked on the stormy backend service (NodeJs) wherein I added the functionality of logging data about user's each session into the database.
    - Managed the AWS dashboard of all the services.

- Full Stack Developer Intern andwemet   (Feb 2020 - Apr 2021)
    - Rewrote the match filtering api from scratch improving performance by 8x.
    - Integrated SMS api. Also wrote a scheduler to trigger SMSs for certain actions. Included DLT templates after the new law by TRAI.
    - Integrated Google and Facebook authentication into the previous OTP login process.
    - Setup CI/CD pipeline for automated deployments.
    - Worked on notifications api on the backend.