

Arush Sharma

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EDUCATION

- **Indian Institute of Technology, Roorkee** Roorkee, India
Bachelor of Technology, Electronics and Communication Engineering 2019-2023

EXPERIENCE

- **Spacetime** Remote (Hyderabad)
Fullstack/Security Engineer August 2022 - November 2022
 - **AWS Hosting:** Deployed and maintained a NodeJS web application hosted on an AWS EC2 Instance and connected it with a Postgres database on AWS RDS. Wrote workflow to store images through the web application on S3.
 - **Hasura Actions:** Used the Hasura engine for GraphQL to streamline the API query workflow for better performance and ease of understanding across the team
 - **Workflow to Mint NFTs:** Wrote and maintained NodeJS APIs to perform Web 3.0 based transactions on the Ethereum/Polygon blockchain to mint NFTs using the ERC1155 standard
 - **OTP Workflow:** Designed and deployed a workflow to add OTP verification to the login/signup process by integrating with MSG91 services.
- **Cisco Systems India** Remote (Bengaluru)
Technical Undergraduate Intern May 2022 - July 2022
 - **Data Center Intern:** Worked with a team in the Data Center Engineering Group as a Software Development Intern
 - **FC/FCoE Consistency Checker:**
 - Worked with and learnt to use commands on a Cisco Nexus 9000 switch
 - Contributed to the consistency checker written in Python for sections of the switch dealing with FC/FCoE traffic
 - Wrote Quality of Service(QoS) checks for all stages of traffic passing through the switch.
- **Holmes and Watson Technologies** Remote (New Delhi)
Backend Developer Jun 2021 - August 2021
 - **Backend:** Developed the backend for a utility software for school and classroom management from scratch using NodeJS to serve a Flutter App frontend with a MongoDB Database.
 - **Authentication workflow:** Implemented a JWT based authentication flow and integrated it with the application backend written in ExpressJS.

PROJECTS

- **Multimodal Transportation Analysis (Data Mining):** Performed Data Mining on the data of Delhi Metro and Delhi Intra-city Bus usage to identify patterns to provide valuable insights to authorities for improving the network; and also to users to help them choose better routes based on travel preferences.
- **MetaML (Reinforcement Learning):** Wrote a Reinforcement Learning agent to select between different learning algorithms for different datasets to pick the ideal candidate on the basis of training the agent on those learning curves.
- **Virtual Audio Cable:** Developed a python based audio software for Dynopii (a software startup) under a Winter of Code Program by DSC NSEC to act as a virtual audio cable. Allows the user to use techniques to manipulate the audio, which routes to meetings and calls on the device and works as a 'Voice changer'. (Dec '20)
- **KSOS (Operating System):** Developed our own Operating System as a team of 3 members. Wrote our own bootloader and shell. Based on Legacy BIOS for an x86 system based on Linux Kernel (Debian).

SKILLS SUMMARY

- **Languages:** Javascript, C++, Python, C, SQL, Unix scripting
- **Tools:** GIT, AWS (EC2, RDS, S3), NodeJS, ExpressJS, Linux, MATLAB, Postgres, MongoDB
- **Additional Courses:** Fundamentals of Object Oriented Programming, Data Structures and Algorithms, Data Mining, Information and Coding Theory, Operating Systems, Computer Networks
- **Languages Known:** English(SRW), Hindi(SRW)