

# Priyanshu Tripathi

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## EDUCATION

### National Institute of Technology, Kurukshetra

*Bachelor of Technology in Computer Science*

Thanesar, Haryana

Dec. 2020 – Jun. 2024

### Abu Dhabi Indian School

*High School*

Abu Dhabi, UAE

Apr. 2019 – Mar. 2020

## EXPERIENCE

### NGIpkgs maintenance mob

*NixOS Foundation*

May 2024 – Jun. 2024

*Netherlands – Remote*

- Packaged projects funded by the NGI consortium using Nix – a tool for declarative builds and deployments.
- Generated package and module documentation for NGIpkgs and nixpkgs.
- Oversaw general maintenance and improve NGIpkgs contributor workflows.

### Software Development Intern

*Zoyride*

Jan. 2023 – Jun. 2023

*Gurugram, Haryana*

- Created a TypeScript web-app for online transport booking services with several custom input generics
- Developed a lightweight, embedded map using Apple's MapKitJS integrating over 500 data points and diagrams
- Completed numerous refactors involving code cleanup **reducing the SLOC from ~12000 down to ~3000**
- Implemented APIs around **high velocity data (~200 records/sec)**, managing real-time event storage and retrieval

## PROJECTS

### Official NITKKR Website | *TypeScript, NextJS, TailwindCSS, PostgreSQL*

**Source**

- Designed and **lead the development** of a web-app going to serve the official website of NIT, Kurukshetra
- Organised a blob of data into a database schema aimed at handling **50k+ records with high data availability**
- Assigned required changes from the faculty to the team of 30 developers with well defined issues and mind-maps
- Self-hosted and integrated Discourse inheriting the website's auth and users with added moderation features

### charachorder.py | *Python, inquirer, pyserial*

**Source**

- Developed a wrapper around CharaChorder's Serial API **mapping 100+ methods**
- Implemented a CLI which allows for direct command execution – helpful for debugging the device
- Wrote documentation for all 100+ methods and configured logging throughout the library

### NITKKR Student Support | *TypeScript, NextJS, TailwindCSS, next-auth*

**Source**

- Aggregated 400+ courses, medium velocity notifications, and a clubs archive with **a delightful user experience**
- Implemented a simple authorisation flow **needing as little as 2 clicks to get signed in**
- Developed event & member management dashboards for clubs integrating a central database of **7000+ students**

### Project Hyperlink | *Python, discord.py, asyncio, aiohttp*

**Source**

- Implemented a robust verification gateway heavily tested against edge cases and enhanced DOS attack protection
- Profiled code extensively, reducing the disk usage, and **memory usage from 1 GB to 400 MB at peak**
- Refactored ~4 separate times to use a suitable database schema and an easier to follow implementation of code
- Implemented i18n **across ~7000 SLOC** with an optimised l10n object creation to avoid memory leaks

## ACHIEVEMENTS

**NixOS:** One of 5 RFC Steering Committee members – 2024

**Institute Software Application Club:** Founded ISAC, managing the government-owned website of NITKKR – 2024

**Summer of Bitcoin 2023:** Selected among 44 out of 10357 applicants

**Open Source Lead @ Google Developer Student Club** educating 60+ students about open source – AY 2023-24

**Smart India Hackathon:** Selected among 2 teams to represent NITKKR at a national level – 2022

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, TypeScript, Go, Rust, Nix

**Frameworks:** Flask, React, NextJS, Node.js, HTMX, Gin, PostgreSQL, HTML, CSS

**Developer Tools:** Matrix, Git, Vim, VS Code, Nix flakes