Priyanshu Tripathi

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EDUCATION

National Institute of Technology, Kurukshetra — Thanesar, Haryana
Bachelor of Technology in Computer Science — *Dec. 2020 – Jun. 2024*

Abu Dhabi Indian School — Abu Dhabi, UAE
High School — *Apr. 2019 – Mar. 2020*

EXPERIENCE

Software Development Intern — Jan. 2023 – Jun. 2023
Zoyride — *Gurugram, Haryana*
- Create a TypeScript web-app for online transport booking services with several custom input generics
- Develop an embedded map using Apple's MapKitJS along with integration with data mapping through diagrams
- Complete numerous refactors involving code cleanup reducing the SLOC from ∼12000 down to ∼3000
- Implement authorisation and i18n with a simple architecture enabling easy updates in the future
- Implement APIs around high availability data (∼200 records/sec), managing real-time event storage and retrieval

PROJECTS

Open Source Contributions | *Nix, Python, Rust*
- NixOS/nixpkgs: Regular reviewer and maintainer of multiple packages. 13 Merged PRs, 36 Reviewed PRs
- CharaChorder/nexus: Developed a Python library to wrap on a serial API and merged new features and refactors
- Fedimint/fedimint: Migrate bash tests to Rust and complete several chores

Official NITKKR Website | *TypeScript, NextJS, TailwindCSS, DrizzleORM, RadixUI, PostgreSQL* — Source
- Design and lead the development of a web-app going to serve the official website of NIT, Kurukshetra
- Organise a blob of data into a database schema aimed at handling 50k+ records and a constant data flow
- Assign required changes from the faculty to the team of 30 developers with well defined issues and mind-maps
- Self-host and integrate Discourse inheriting the website's auth and users with added moderation features

NITKKR Student Support | *TypeScript, NextJS, TailwindCSS, next-auth* — Source
- Utility website aggregating 400+ courses, medium velocity notifications, and a clubs archive.
- High emphasis on accessibility and user experience with majority time spent on product design.
- Event and member management for clubs integrating role assignment and verification features with Project Hyperlink.

Project Hyperlink | *Python, discord.py, asyncio, aiohttp* — Source
- Implement a robust verification gateway heavily tested against edge cases and enhanced DOS attack protection
- Profile code extensively, using simple code over complex code for minimal resource usage and smaller attack surface
- Refactor ∼4 separate times to use a suitable database schema and an easier to follow implementation of code
- Implement i18n across the code-base with an optimised, de-duplicated l10n object creation to avoid memory leaks
- Implement a fully functional, now deprecated, version of Voltorb Flip, a minesweeper-like game within Discord

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

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