

# Abishek Devendran

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## Skills

- **Languages:** Javascript, Typescript, Python, C/C++, SQL
- **Libraries:** ReactJS, Pandas, SciKitLearn, Framer Motion, Socket.io, Zod
- **Frameworks:** NextJS, TailwindCSS, ExpressJS, Sveltekit
- **Software:** Blender3D, Figma, Postman
- **Misc:** CI/CD, Time Management, Git/Github, SEO, Bundle Analysis.

## Experience

OruPhones | Alwar, Rajasthan

Full Stack Development Intern | 05/2023 - 11/2023

- Pioneered incremental upgrades to cutting-edge technologies, ensuring seamless integration and error-free operation.
- Transformed Core Web Vitals, achieving all greens and boosting performance by approximately 25% across the board.
- Revamped codebase to bolster security and performance, resulting in a 50% reduction in JS client bundle size and 40% faster server API response time.
- Achieved 100% server uptime through flawless error handling and adoption of cookie and Redis session-based authentication.
- Spearheaded the adoption of TypeScript and Zod validation, fortifying backend and frontend security.
- Improved Developer Experience (DX) with a streamlined file structure and increased TypeScript integration (backend 20%, frontend 45%).
- Optimized frontend for better SEO and performance with SSR hydration and DOM node virtualization, enabling smooth 60fps scrolling even on under powered devices.
- Led a small team of frontend engineers to rebuild the frontend from scratch, including payment functionality and accessibility audits.

## Projects

- **Buntest(2023):** ElysiaJS(Bun)+Lucia(self host auth)+ NextJS/Sveltekit for hyperoptimizing an optimal future stack.
- **Strife(2023):** Fullstack **NextJS+ExpressJS+Socket.IO PWA/webapp** built for utmost possible performance with caching optimizations with best possible security and **auto-user merging/management** functions.
- **LL(1)/LR Parsers(2022):** Coursework in advanced C.
- **Chain Reaction Multiplayer(2021):** Using **web sockets** and vanilla SPA ReactJS hosted on an **ExpressJS** server to make a multiplayer online board game.
- **OAuthVC(2022):** (deprecated) P2P PeerJs, Socket.IO and Oauth based project.
- **Work Dashboard(2022):** 2-day Hackathon submission. An SPA with access control and data Viz, to be used in professional spaces.
- **Human Activity Recognition with Smartphones(2022):** EDA and Comparative model analysis after Data Cleaning and Reduction steps.
- **IoT Mining Helmet:** Product Design project involving incorporating smart dynamic sensor nodes as part of a **mesh network** with **MQTT** pub/sub support. Prototyped with **Arduino** and **ESP01S**.

## Education

Indian Institute of Information Technology, D&M. | Chennai, Tamil Nadu

B.Tech, Computer Science. | 05/2024

Current CGPA : 8.2

## Awards

Prometeo CTF 4th position, Shaastra CTF 51st position

## Socials

- Github: <https://github.com/abishekdevendran>

- LinkedIn: <https://www.linkedin.com/in/abishekdevendran>