Pritthish Nath

Full-stack Developer

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Bhatpara (near Kolkata), West Bengal – 743123, India

Skills

Development
- JavaScript | TypeScript
- React | React Hooks & Context
- NextJS 14 - App router, Server actions
- Recoil.js | Redux
- Material UI
- Node.js | Express | Socket.io
- JWT Auth | Session Auth
- MongoDB | MySQL
- Bootstrap | Tailwind CSS

CI/CD Pipeline
- GitLab CI
- GitHub Actions

Deployment
- Ubuntu/Debian VPS
- Docker | Docker compose
- AWS ECS Fargate
- Caddy web server
- PM2 process manager
- Cloud networking

Education

Fellowship in Software Development
Crio | 2023 – present

B.Com in Finance & Investment Analysis *(Distance)*
Amity University | 2019 – 2022

Gap year *(Oct 2022 – Sep 2023)*

Product Developer
Co-founding a customized mechanical keyboard D2C brand | aceKBD.com

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Skilled in Web, Network concepts, and Linux Systems: I understand how they work. I primarily focus and excel at grasping concepts and pattern, enabling me to rebuild or upgrade systems from scratch or mid-project. With 2+ years of hands-on React and Node.js based projects, I found my niche building web applications.

Professional Experience

Freelancing

Freelance Developer
TCM Stunner IT Consultants LLP | Dec 2023 – present

1. Developed *Vedanta Archive* display site, using **NextJS** with **App router** with dynamic content fetch on-demand from CMS. *(present)*
   - Features developed are lazy loading content on scroll, search and filter content, global audio player etc.
   - Other used modules: **Recoil** for state management, fetch for REST API.
2. Deployed a containerized application stack using **EC2** Docker environment and **ECS Fargate**, within same VPC network. *(2024)*
3. Deployment of several projects in **Docker** environments in Ubuntu Servers, building CI/CD pipeline with **GitLab CI** to automate the process. *(present)*
4. **Improved projects management accessibility** by deploying several application e.g. Portainer for container management, Vikunja for task management, Passbolt for password management, Cockpit for monitoring and accessing VPS. *(2024)*
5. Worked on **migration** of a **React Native** application back-end from Firebase API to **Node.js and MongoDB** ecosystem. *(2023)*

Full-time

Full-stack Software Engineer
TCM Stunner IT Consultants LLP | Remote, Feb 2022 – Oct 2022

- Developed *DSky*, a push-to-talk communication application on top of WebRTC, with features containing group broadcasting, peer-to-peer audio & video call with recording and role based dynamic admin portal.

Tech Used
Front-end: **React** | Skote Dashboard theme | **Redux** | **Reactstrap** | Google Maps API | Custom hooks
Back-end: **Express** | **Socket.io** | **Mediasoup** *(WebRTC)* | **MySQL** | **Express-session** | Winston*(Logger)*

Personal Projects

Notes Keeper • *Live Demo* | *UI Repository* | *API Repository*
- A simple markdown content editor with advance MERN-stack features. I created this project as an experiment to test out Micro-service architecture type API implementation in Node.js.
- Built a central API gateway which is connected with an authentication service, and separate resource servers, one of which is Notes API resource server.

Tech Used
UI: **React** | TypeScript | **Bootstrap** | React-Select | React Hook Form | Custom hooks
API: **Express** | Mongoose | TypeScript | Github Actions – CD (common for all)

Authentication Service API • *Repository*
- Authentication service provider for the Notes Keeper and other resource servers, which are integrated with the central API gateway.
- Authentication system based JWT access token and refresh token.
- Enabled user registration with e-mail verification.

Tech Used: **Express** | Mongoose | TypeScript | JWT

React Material Sidebar Starter Template • *Live Demo* | *Repository*
Basic React responsive sidebar starter template with Material UI.

Oneway • *Live Demo* | *Repository*
A Spotify client UI built with **NextJS** & **Tailwind CSS** with few Spotify API functionalities.

Wireguard VPN • *Repository*
Hosting a kernel wireguard VPN in **Oracle Cloud** for family members living abroad to access Indian contents, vice-versa and for personal intranet, integrated with DNS traffic filtering by Pi-Hole and resolver Unbound.