Riki Phukon

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Work EXPERIENCE

Full-stack developer

Xongroh   July - Oct 2023
  - Key team member. Sole techie. Played a crucial part in both technical and executive aspects.
  - Tech stack: Node.js, React, Redux Toolkit, Express MongoDB

Engineer Intern   Aug- Sept 2022

Indian Institute of Technology, Guwahati, IN
  - Implementation of Diversity Receivers on FPGA | OFDM simulation. Link

Intern   Sept- Oct 2021

Bharat Sanchar Nigam Limited, Jorhat, IN
  - I contributed to the operations of the telecom exchange, checking for BSNL's fibre optic network faults in the district.

PROJECTS / PROOF OF WORK

Clack | Cloudflare Workers KV, PostgreSQL, OpenAI SDK, AWS S3 + Cloudfront   -
- Clack **syncs** your writing activity from **Notion** and **Google Docs** displaying progress on a calendar heatmap.
- Data is **encryted** using AES-256-CBC and it also includes a handy widget for Notion workspace. It also comes with an **AI assistant** and a Notion-style WYSIWYG editor.

CitySort | Typescript, Pocketbase, React, Nginx, Docker, Tailwindcss, AWS EC2
- A live index of the best cities to live and work in India, based on crowdsourced data with the backend hosted on aws EC2 server.

NetShell | Golang
- Sets up a simple HTTP server that allows remote execution of commands on the host machine. It provides a basic interface to run shell commands via HTTP requests.

Load Balancer | Golang
- Demonstrates a basic load balancer that distributes incoming HTTP requests among a set of backend servers.
- Checks the health of each server through periodic health checks and adjusts the load distribution accordingly.

GitKeykit | Javascript, Node.js
- Setting up GPG and Git configuration on **remote machines** and GitHub codespaces is cumbersome, so it helps setup **Git and GPG configs** with one command.
- Sets pinentry mode to loopback for secure passphrase entry. **Creates and imports** gpg keys.
- Gracefully handles differences between Linux and Windows machines.

Guava-term | Javascript, Node.js, Cli tool | Websockets
- An **exploit** to interact with a **Vercel Build Container** from the inside.
- Helps use the container's **/tmp directory** and use **500MB** of extra space that is otherwise not available to the users on Vercel.

Xongroh | ReactJS, PM2, Tailwindcss, ExpressJS, MongoDB, Redux-Toolkit & RTK Query, Nginx
- Social marketplace designed exclusively for Creators. Served from a VPS deployment on a **PM2** managed Node.js server with Nginx as a **reverse proxy**.

SKILLS

Typescript, Golang, GDScript, Node.js, Next.js, Redux Toolkit, Tailwind CSS, AWS, Linux, Docker, Kubernetes

I can read documentation and learn practically anything.

EDUCATION

Jorhat Institute of Science and Technology, ASTU   Jorhat, IND

Bachelor of Technology in Electronics and Telecommunication Eng.   *2019-23*