# VED RATAN

## Indian Institute of Information Technology and Management, Gwalior

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## EXPERIENCE

### Project Contributor
**LFX Mentorship, Kyverno, Nirmata**

📅 June 2023 – August 2023

- Created **Kubernetes controller** to automatically delete labeled resources on schedule, preventing wastage of machine resources.
- Ensured high scalability, availability, and concurrent resource handling by deploying the controller for over **2000+ resources**.
- Utilized **Golang** for concurrent implementation, ensuring **thread safety**, applying design patterns, and preventing **resource leakage**.
- Actively involved in **testing and CI/CD phases** as well as timely discussion sessions.

### DevOps Intern
**Flipr**

📅 April 2023 – May 2023

- Created a entire monitoring stack along with the implementation of the TLS via **Let'sEncrypt, Certbot**.
- Used **Nginx** as the reverse-proxy, which acts as a loadbalancer and also provided custom https URL via **Route53** and TLS security.
- Created a entire **Jenkins** pipeline along with GitSCM polling to automate the entire software integration and deployment process.
- Used **Grafana** for visualisation of the current node health and **NodeExporter, Cadvisor, Prometheus**, for logging the health status of nodes.

### Android Developer Intern
**NullClass**

📅 March 2022 – April 2022

- Developed a course on cab-booking app by using google maps apis and other google api.
- Used **Firebase Realtime Database** as the backend database to store each and every information of driver and customer and also all the ride updates and history.

## PROJECTS

### Appxposer
**Golang, Kubernetes, Minikube, Makefile, Docker**

📅 February 2023

- Created a custom Kubernetes controller to expose the app to the outside world as soon as the app is deployed via delpoyment.
- Used Golang to build up the controller which communicates with the api-server via kubeconfig.
- The controller will listen for the creation and deletion of the deployment and creates and deletes the ingress resources accordingly.

### AutoDeploy
**Golang, Jenkins, Kubernetes, Ngrok, ArgoCD, GithubActions, Docker.**

📅 February 2023

- Deployed an api by constructing a production level pipleline.
- Automated the process of creating a docker image and updating a config file watched by **ArgoCD** using **Jenkins** to deploy changes in minikube.

## EDUCATION

### Bachelor's of Technology
### Computer Science and Engineering
**IIIT Gwalior, India**

📅 December 2020 – December 2024(Expected)

7.33 CGPA

### Class XII, ISC
**St. Antony's Inter College, Lucknow, Uttar Pradesh, India**

📅 June 2017 – June 2019

90.25%

## SKILLS

- **Languages**

  Golang, Java, C++, HTML, CSS, Dart, JavaScript

- **Frontend**

  MaterialUI, React, Flutter, Next

- **Backend**

  ExpressJS, SpringBoot, Golang

- **Database**

  MySQL (SQL), Sqllite, Firebase, MongoDB

- **DevOps/Cloud**

  GCP, Ansible, AWS, Chef, EFK, Kubernetes, Docker, Jenkins, Terraform, Prometheus, ArgoCD, Grafana, Cadvisor

- **Tools**

  Git & GitHub, Adobe Xd, Firebase, Adobe Photoshop, Android Studio

## ACHIEVEMENTS

- **Secured 3rd Position** on Lifescape conducted by AASF club of IIIT Gwalior
- **Highest rating - 785** on Codeforces
- **Cleared SIH Regionals 2022**

## POSITIONS OF RESPONSIBILTIY

- Placement Representative **IIITM Gwalior**
- Speaker **Google Cloud Event, GDSC IIITM Gwalior**
- Android Facilitator **Compose Camp, GDSC IIITM Gwalior**