# SAI RITHWIK M

☐ +91-6205684114 | ☑ sai.rithwik@iiitb.ac.in | ⊕ rithwiksai.tech | In sai-rithwik-m | ♠ DaKeiser

## **EDUCATION**

Integrated M. Tech | Computer Science and Engineering

International Institute of Information Technology, Bangalore

Aug. 2018 – Present Bengaluru, India

# **EXPERIENCE**

## Technology Analyst Intern | Ernst and Young

May 2021 – July 2021

- Developed an inventory management application that uses deep learning models to identify groceries.
- Built a frontend, containerised the application and integrated with EY's automation platform ASpace.
- Used Yolo-v5 for reidentification, achieved a confidence score of 87% and response time of 7 seconds.

## **PROJECTS**

## Selec. | Go, React, Kubernetes, Grafana

May 2022 – Present

- Created a platform that provides comprehensive information about the courses and professors of IIITB.
- Built a CI/CD pipeline using Github Actions and Ansible, orchestrated using Kubernetes and deployed on Azure.
- Covers OWASP API Top 10 security standards.

## Local to Global Schema Converter | MySQL, Python, UnixODBC, React

January 2022 - May 2022

- Mapped local schema of data sources to a global schema for data retrieval operations from the global schema.
- Improved User Experience by adding a Smart Suggestions feature based on homonyms, synonyms and data types.
- Built a gateway for BMTC to enable easy querying on multiple data models based on bus routes data.

### CovIntel | Python, Dash, XGBoost, Docker, Azure

December 2020 - May 2021

- Developed an interactive dashboard to determine region wise vaccine efficacy and herd immunity.
- Generated visualisations to help government agencies and vaccine manufacturers with supply chain management.
- Modularised the application, hence supports integrations with any relevant data provided through APIs.

## Benchmarking Open Libra blockchain | Rust, Move, Python

May 2021 – November 2021

- Understood the gossip protocol at a consensus layer in Open Libra(Proof of Stake blockchain).
- Ran experiments and collected relevant data on finality, transaction success rates and transactional latency.
- Identified bottlenecks in the Mempool layer of the blockchain and proposed techniques to mitigate them.

# ACHIEVEMENTS

- Winner, EY Techathon 2021/1500 teams using AI/ML methods to predict vaccine efficacy.
- Top 10, India on CTFTime where our CTF Team Zense ranked 8<sup>th</sup>/5964 nationwide and 96<sup>th</sup>/35978 worldwide.
- Finalist, ICANN DNS Challenge: Ranked  $5^{th}/800$  teams for ideation of infrastructure for ODoH in IoT context.
- Runner Up, EHRC Smart-Decoder Contest which involved digitisation of physical medical records using NLP.

#### **SKILLS**

Programming Languages: Python, Bash, SQL, React, Javascript, Go

Tools: Ansible, Azure, Docker, Kubernetes, Wireshark, Loki, Grafana, Burpsuite, Volatility

Languages: English (C1), Hindi (C1), Telugu (Native), Tamil (B1)

Interests: Reverse Engineering, Digital Forensics, Blockchains, Video Editing

#### COMMUNITY INVOLVEMENT

#### Co-Licensee, TEDxIIITBangalore

2020 - 2021

- Co-Licensee of TEDxIIITBangalore an annual event where speakers from various disciplines share ideas.
- Organised the first virtual edition of TEDxIIITBangalore which gained over **75k views** on Youtube.

## Co-Founder, Zense InfoSec Team

2020 - present

- Co-Founder of Zense InfoSec club that conducts and participates in various CTFs
- Led team to T-10 position all India for 8 months in 2020 and T-20 ranks globally in 6 CTFs.

#### Core Organising Team, iSTEM Hackthon

2018 - 2020

• Lead at iSTEM Hackathon, that motivates STEM research and inclusiveness among visually impaired developers.