

# MARUT PANDYA

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## EDUCATION

### ILLINOIS INSTITUTE OF TECHNOLOGY

Master of Science in Computer Science

Chicago, IL

August 2022 - May 2024

- Implementing a research project - <http://datasys.cs.iit.edu/projects/xsearch/index.html>
- Relevant coursework - Cloud computing, Deep learning, Object oriented programming & design.

### DAYANANDA SAGAR COLLEGE OF ENGINEERING

BE in Information Science & Engineering

Bengaluru, India

June 2020

- Relevant coursework - Data structures & algorithms, Database management, Operating systems, Machine learning, Unix, Computer Architecture

## EXPERIENCE

### Deepfence Inc. (20+ employee venture-backed cloud security startup)

Bengaluru, IND

Member of Technical Staff

December 2020 – June 2022

- Engineered a graph visualisation topology for cloud infrastructure stack using Graph theory based JavaScript library AntVis g6, improved performance of topology by 13x from 150 to 2000 nodes
- Developed an internal tooling to extract the 100+ packages and versions from generated SBOMs and implemented the runtime BOM feature in UI
- Directed a project to upgrade the ReactJS v15.6.1 to ReactJS v17.0.0 upgrading 80+ dependencies.
- Conducted 20+ proof of concepts for topology like network visualisation using the Javascript library CytoscapeJS with 5 graph algorithms
- Overhauled the obsolete legacy source code of 1 production application, resulting in increased usability and reduced run time performance by 50%
- Implemented a project to refactor the 90% of the ReactJS Components of client application

### MayaData Inc (acquired by Datacore Softwares)

Bengaluru, IND

Software Development Engineer

September 2020 – December 2020

- Re-designed a service to automatically patch the yaml for stateful workload running on kubernetes using Go
- Implemented a service to visualise a throughput, input/output metrics of Minio object storage instance running on kubernetes using Grafana and Prometheus in Java
- Delivered 10 company wide product demos of application and monitoring visualisation on SaaS

### MayaData Inc (acquired by Datacore Softwares)

Bengaluru, IND

Software Engineering Intern

January 2020 – August 2020

Software Engineering Intern

January 2019 - August 2019

- Coded an end to end service to fetch metrics using prometheus exporter and promql in Java. Designed 7 grafana dashboards for application
- Integrated a REST API developed in Go in the user interface using JavaScript to provide one click install of volume and pool monitoring running on kubernetes for 5 applications

## PROJECTS

**Half UNet Image segmentation (Python, Keras)** : Developed a Deep learning model for MRI image segmentation (<https://github.com/pandymarut/HalfUnet-ImageSegmentation>)

**YAML patcher using kubernetes client (Go, docker)**: Created a Go binary which is used to patch the resource yaml in runtime running on kubernetes (<https://github.com/pandymarut/kube-patcher>)

**Open Source Developer (Palo Alto, CA)** : Core contributor to open source project ThreatMapper

## SKILLS

**Technical Skills**: Python, Javascript, Go, C/C++, ReactJs, GraphQL, Bash, Flask, Kubernetes, Docker, Git, keras, Linux, MySQL, MongoDB, EmberJS, TypeScript, NodeJS, AWS

**Achievements**: GirlScript Summer of code 2020 outstanding Mentor

**Soft skills**: Problem solver, Team work, Leadership, Time Management