

## WORK EXPERIENCE

### Software Engineering (Intern) - [Stockal](#)

January 2022 - July 2022

- Primary developer on the **P&L calculation** project and was a key member till the term.
- Done work around transaction data and further calculations and providing the same to service partners and clients, reducing manual work of OPs team to 0% and introduce third party integration
- Worked on stock **prices** to provide ticker price data for multiple features and calculations and candlestick **charts for technical analysis** using [TradingView advance charting library](#)
- Worked on data migration from **NoSQL** to **SQL** databases
- Worked on **Authentication, Logging** and other **middlewares** to reduce rewriting of code across multiple projects
- **Technologies Used:** DB -> TimescaleDB, AWS RDS, MongoDB, Redis | *Backend* -> NodeJS, Python, Golang | *Others* -> AWS, Pandas

## PROJECTS

### TNP Portal

Project | [Gitlab](#)

- Common portal for students and companies to manage placements in the institute
- **Rate limiting** (Authentication token based - fallback to IP) backed by **Redis**
- **Horizontally Scalable** application.
- Automatic expiry of incomplete user profiles using **Redis Pub/Sub**
- **Tech Stack:** Front-end -> NextJS, MaterialUI | DB -> Postgres, Redis | Backend -> NodeJS, Firebase Storage | Others -> Redis Pub/Sub, Helmet.js

### status-cron

Project

- A cron service to keep track of health of your services.
- Supports multiple service types (HTTP, Redis, SQL [Postgres, MySQL, Oracle], MongoDB)
- Works by sending a connection request to the service and adds an entry of the result to a Postgres database
- Helpful for tracking multiple services in a minimal form with flexibility to use the data acquired as wanted
- **Tech Stack:** Golang

### Work Stealing Dequeues, Pull based work balancing **Sup.: Dr. Sathya Peri, Professor, CSE-IITH**

[Github](#)

- Understand and Implement a work stealing dequeue to balance work among idle and loaded threads
- Implementation of the model in a multi-core environment
- Explore possible improvements and implementation in a distributed environment (balance multi-region load, etc.)
- **Tech Stack:** C++

### DF-GAN, Text to Image Generation **Sup.: Dr. CKM, Professor, CSE-IITH**

[Github](#)

- Understand the architecture and working of Deep Fusion Generative Adversarial Network
- Implementation of the model and reproduce IS and FID scores for comparison
- Explore possible improvements in the architecture
- **Tech Stack:** Python, PyTorch

### Networking Project, **Sup.: Dr. Ramesh Kumar Jallu, Professor, CSE-IIITR**

Presently Running

- Setup local LDAP, Intranet, Self-Hosted DNS, VPN and other systems required in daily use
- Setup security for Wifi, LAN and others intranet services
- Implement common shared printer service for students

## TECHNICAL SKILLS

<b>Programming Languages</b>	JavaScript, Golang, Python, C++, C
<b>Databases</b>	Postgres, Mongo DB, Redis, TimescaleDB
<b>Frameworks</b>	Next JS, Express JS, Material UI
<b>Systems</b>	Linux, AWS, Digital Ocean, Heroku

## EDUCATION

### Bachelor of Technology - Computer Science and Engineering,

July 2019 — June 2023

Indian Institute of Information Technology, Raichur

CGPA (Current): 8.58/10.00

## COURSES

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### Institute Courses

• Data Structures • Algorithm Design and Analysis • Operating Systems • Software Engineering • Database Management Systems • Computer Architecture • Parallel and Concurrent Programming • Computational Methods • Advanced Algorithms • Digital Image Processing • Scalable Algorithms for Data Science

### Online Courses and Certifications

- Google Cloud Platform Fundamentals: Core Infrastructure
- The Bits and Bytes of Computer Networking by Google
- Deploy to Kubernetes
- Qwiklabs Quests (AWS and GCP technologies)

## VOLUNTEER EXPERIENCE

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**Cloud Facilitator**, Google Developer Student Club - IIIT Raichur

Sept 2021 — Apr 2022

- Get to know about the Google Cloud Platform (GCP) and help people in community to get started with it.

**Teaching Assistant**, Indian Institute of Information Technology Raichur

Sep 2020 — Present

- Introduction to Programming (under Dr. Rakesh Venkat, IITH)
- Operating Systems - 1 (under Dr. Sathya Peri, IITH)
- POPL (under Dr. Sadhana Jha, IIITR)
- Design and Analysis of Algorithms (under Dr. Ramesh Jallu, IIITR)

(Present)

**Placement Cell Coordinator**, Indian Institute of Information Technology Raichur

Apr 2021 — Nov 2021

**Cultural Secretary**, Indian Institute of Information Technology Raichur

July 2020 — Aug 2021

**Electronics Club Coordinator**, Indian Institute of Information Technology Raichur

August 2019 — July 2020