

# Mukul Mehta

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## Education

**Indian Institute of Technology Kharagpur**

*B.Tech in Computer Science & Engineering, CGPA: 8.81/10*

**Kharagpur, West Bengal, India**

*2018 - 2022 (Expected)*

## Experience

### Oracle

**May 2021 - July 2021**

**Project Intern** | OCI Block Storage SRE Team

- Block Storage is a core service of the OCI ecosystem, providing durable and elastic volumes. The SRE team is responsible for maintaining and monitoring the block storage service
- Designed a new service to reduce manual activity present in runbooks, by auto-triaging and auto-remediating JIRA tickets as they arrive, by searching for relevant runbook and executing it with Rundeck
- Involved in writing multiple clients to connect to internal services to fetch disk and host information, pulling specific events from kernel logs, and execute commands remotely
- Built a PoC of the new service with the most commonly used runbooks, including setting up a load balancer for multiple rundeck instances, a logs agent and writing an exporter for monitoring using Prometheus

## Projects

**Listen to this KGP** | lttkgp.com

**April 2020 - Present**

- Listen to this KGP is a facebook group where people share songs they find interesting. LTTKGP webapp provides a way to browse and listen to the songs posted with a better interface and queued playlists
- Participated in the development of two major service - To fetch posts from Facebook API into a NoSQL DB, and to parse and extract metadata and store in a PostgreSQL database that is served using a REST API
- Deployed and managed the two services using multiple AWS services including VPCs, ECS, ECR and DynamoDB

**Grameen-Setu** | *InterIIT Tech Meet 9.0*

**March 2021**

- Built Grameen Setu, an e-commerce platform to connect SMEs and self-help groups in rural India
- Designed the database schemas, and implemented the backend of the platform, integrated API calls with the frontend, and deployed it on AWS
- Worked in a team of 4 to develop the platform in 3 weeks and tested the robustness among real producers and consumers
- Developed as a part of IIT Kharagpur's gold-winning submission in the 'Drishtee's Tech-led Innovation for Rural Entrepreneurs' event

**PintOS & Eudypytula Challenge** | *Operating Systems & Systems Programming*

**Jan 2021 - April 2021**

- Completed the 4 PintOS projects involving making changes to the PintOS kernel. Tested and validated with the standard PintOS tests and debugged with GDB
- Projects included implementing an alarm, virtual memory, stack growth, priority donation, multi-level feedback scheduling, user mode programs and a simple inode based filesystem
- Worked on the first 6 levels of the Linux Eudypytula challenge, which involved writing basic kernel modules, understanding the kernel coding guidelines and building a device driver for a character device

## Technical Skills

**Programming Languages:** Python, C, Go, JavaScript, Java (Beginner)

**Web Libraries / Frameworks:** Flask, Django, BS4, Selenium, ReactJS

**Databases:** MySQL, PostgreSQL, MongoDB, Elasticsearch, Redis

**Systems/Platforms:** Docker/runc, Nginx, Linux, AWS, Git, Prometheus, Grafana, Rundeck, CI/CD Tools

## Position of Responsibility

**Kharagpur Open Source Society** | *Executive Head*

**February 2019 - Present**

- Organized workshops and internal sessions on Python, Git, Linux and Shell scripting
- Conducted Kharagpur Winter of Code (KWOC), a month-long program for college students aimed at familiarizing them with contributing to open source projects. KWOC 2020 saw the participation of more than 2000 students

**Technology Coordinator** | *TSG, IIT Kharagpur*

**Session: 2020-21**

- Highest nominated technical position in the institute. Responsible for maintaining and updating the Gymkhana website, grievance portal, and working with other office bearers to execute their proposals
- Worked with a team of 2 developers to revamp the Gymkhana website, moving from PHP to NextJS, adding multiple pages and removing redundant information in the process