Rahul **Malu**

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Summary

A full stack software engineer with overall 3+ years of experience in web development, past 2 years at Enphase Energy Pvt Ltd and an year of prior industry experience at a remote startup. Interested in solving business-level problems, Currently using backend in NodeJS and frontend ReactJS frameworks but flexible and willing to learn new frameworks and languages. Interested in devising a better system with new technologies and tools if the need arises.

Education

IIT Kharagpur   *Kharagpur, India*

B.Tech.+ M.Tech. (Dual Degree) in Instrumentaion Engineering and Signal Processing   *(2017-2022)*

CGPA-8.34/10

Work Experience

Enphase Energy Pvt. Ltd.   *Bangalore, India*

Software Developer   *July. 2022 - Present*

- Orchestrated a public API infrastructure in **NodeJS Express** framework, to offer core features of Solargraf for client's CRM integration.
- Wrote extensive **unit tests** for more than 20 APIs developed using **Mocha** to build a test suite which was integrated with the CI/CD pipeline on GitHub.
- Created and maintained detailed API documentation of public endpoints provided for clients using ReactJS, using swagger documentation format in YAML.
- Build API monitoring dashboards using Python scripts and regex pattern matching to monitor and analyse production metrics like throughput, failure rates, number of active clients, etc.
- Contributed and coordinated with a team of more than 10 people to develop a new UI written in **ReactJS** framework.
- Worked on other features involving subscription packages which involved writing migration files, as a part of the internationalization of SG app for multiple countries.

Blotout Inc.   *Remote*

Server Engineer   *May 2021 - Jan 2022*

- Integrated a Consent Management platform by including a user consent checkbox onto their React JS Application on a data lake platform.
- Built custom dashboards using advanced **SQL**, **Superset** BI and **AWS Athena** to query databases for generating custom charts and tables of the user data.
- Used marketing tools like Google Analytics and Google Tag Manager to integrate custom events (eg. button click) to get real-time reports of those multiple marketing metrics, also automated their analytics platform using Python scripts and **REST APIs** to automatically add datasets, create charts and import dashboards to BI.

CityMall Pvt. Ltd.   *Remote*

Devops Engineer   *Jan. 2022 - April=2022*

- Worked on the monitoring infrastructure where I was responsible for setting up different metrics exporters (Node Exporter, Kafka exporter, etc),
- **Prometheus** service monitors and creating custom monitoring dashboards on **Grafana** for visualizing production applications.
- Created rule based alerts on Grafana to throw alerts on Slack by monitoring error responses like 4xx/5xx on their production nginx server.

Key Projects

Sandbox chrome extension   *Feb 2024*

- Built a chrome extension for clients to add their company, users and subscription plan by filling a form popup on the sandbox environment for solargraf. Added validation error messages to the extension popup form to disallow users from giving wrong inputs.
- This ad-hoc project was instrumental in removing a layer of contact where clients used to contact developers to add their companies using manual API calls.

Phonocardiogram (Heart Sound) Processing and Classification   *Prof. Nirmalya Ghosh, IIT Kharagpur*

Masters Thesis Project   *May 2021 - Feb 2022*

- Segmented Heart sound of Patients into Cardiac Cycles using Signal Processing techniques like autocorrelation, enveloping and thresholding.
- Built several Deep learning Models to classify five heart diseases from the heart sound patterns generated by each due to murmurs.
- Built 2D representation of signals using **Spectrograms** and Scalograms, and applied **2dCNN** and **BiLSTM** based classification models on them.
- Currently working on event segmentation of Heart sounds to get better predictions of results and to have better understanding of the data.