

EDUCATION

- **Indian Institute of Technology, Gandhinagar** CGPA: 8.24
B.Tech - Electrical Engineering with Minor in Computer Science 2016 - 2020

EXPERIENCE

- **Enphase Energy** July 2022 - Present
Senior Software Engineer
 - Designed and lead the development for a **Notification Service**. Used asynchronous messaging (using SQS) between API servers and notification service. The notifications are filtered based on user preferences. Implemented for Email and in-app notifications. Handled on-click by sending redirect link in JSON payload.
 - Improved performance of the most used API (~15 rps) of the team. P95 latency reduced from 800 ms to 200 ms. This was done by introducing a caching layer for RBAC list and improving API logic to remove redundant queries.
 - Implemented a protocol (OpenADR) that uses **mutual TLS** for authentication in a server to server communication.
- Software Engineer* April 2021 - June 2022
 - Designed and implemented **Dynamic Form** that stored meta information about a program's form. The form's properties can be configured by admin. This reduced the onboarding time for new partners.
 - Implemented **Scheduler Locking** to restrict cron jobs to execute only in one node. This is achieved by having a shared database across worker nodes so that lock is acquired by exactly one of them.
 - Implemented sorting, filtering and pagination in REST APIs used by frontend.
- **S&P Global** August 2020 - March 2021
Software Development Engineer
 - Worked on an internal tool which is used to entitle packages to users. It is built using Spring framework and uses MVC architecture.
 - Added new feed of data into the tool which increased the packages offered.
 - Worked on API drive link which runs a scheduler on input files, calls API and places output file in client's outbox folder.
- **Quantiphi Analytics** May 2019 - July 2019
Platform Engineering Intern
 - Built a data-pipeline for a retail company to forecast its sales based on past data, using Google Cloud Platform.
 - Orchestrated various pre-processing and post-processing tasks into the pipeline using Cloud Composer which runs on a Kubernetes cluster.
 - Used AutoML Tables to generate predictions on back test splits and evaluate metrics.

PROJECTS

- **SentEmoji - Empathetic Conversation Generation:** [Github](#)
 - Published in [25th CODS-COMAD](#) (2020) - International Conference on Data Science and Management of Data.
 - Developed a chatbot that generated empathetic **responses with emojis** to the given context
 - Used architectures like Transformer encoder and BERT. Used word2vec and emoji2vec to assign emojis to sentences and CNN model to identify the emotion of generated sentence.
- **Recipes** [Github](#)
 - Multi-user web service with Spring Boot that allows storing, retrieving, updating and deleting recipes.
 - Built using Spring Boot, Spring Security, Spring Data JPA and uses MySQL database.
- **Real Word Spelling Correction** [Github](#) [Article](#)
 - Correction of sentence based on context, even if an out-of-dictionary word is not present. **Bigram language model** is used to compute probabilities of all candidate sentences using a metric like **edit distance**.
 - Used AWS Lambda and API Gateway to deploy as an API. Created a form for taking input and making requests.

PROGRAMMING SKILLS

- **Languages:** Java, C++, Python
- **Technologies:** AWS, Spring, MongoDB, Redis, Kubernetes, Git