

Jatin Dholakia

http://jatin.work

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EDUCATION

- **Indian Institute of Technology, Gandhinagar**

B.Tech - Electrical Engineering with Minor in Computer Science

CGPA: 8.24

2016 - 2020

EXPERIENCE

- **Enphase Energy**

Senior Software Engineer

July 2022 - Present

- 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 (~200 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.

- **S&P Global**

Software Development Engineer

August 2020 - March 2021

- 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**

Platform Engineering Intern

May 2019 - July 2019

- 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.
- 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.

- **News Feed** [Github](#)

- News Feed service to show posts to followers based on interests and geo-location.
- Users can like and comment on posts which improves its rank in the feed.
- Built using Spring Boot, MySQL, Neo4J Graph DB and Redis Cache

- **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 Boot, MongoDB, Redis, Kubernetes, Git