

# HARSHIT RUWALI

Software Engineer

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## WORK EXPERIENCE

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### Backend Engineer

itilite

Sept 2022 - Current

- Contributed to the server-less microservices architecture transformation by seamlessly integrating Priceline vendors and optimizing flight booking workflows, encompassing flight rescheduling and cancellations. Strengthened layers with robust de-duplication logic, refined hotel booking, and cancellation flows, culminating in a significant reduction in packaging time from 30 to 5 seconds.

Tech stack: Python, FastAPI, Docker, MongoDB, Kafka, AWS CDK, AWS StepFunctions, AWS Lambda

- Contributed to the mobile backend team, actively developing and maintaining pivotal features for the mobile application. Spearheaded the implementation of 4 new features, ensuring the stability and optimal performance of existing functionalities. This effort yielded a notable 30% increase in user engagement.

Tech stack: JavaScript, NodeJS, MySQL, Redis, AWS Lambda, AWS EFS, Serverless framework

- Overcame the hard limit timeout of 29 seconds on AWS API Gateway by implementing response caching in Redis. This approach effectively bypassed the network call limitation of 6MB and optimized response delivery by chunking the full response.
- Directed the implementation of 3 proof-of-concepts (POCs), encompassing projects like building AWS infrastructure from code using AWS CloudFormation (AWS CDK).

### DevOps Engineer Intern

Plypicker

May 2022 - Sept 2022

- Set up CI/CD pipelines for the web using GitHub Actions, AWS Code Pipeline and then Deploying them to ec2 instances via Code Deploy which are under a load-balancer and auto-scales as needed.
- Deployed a robust Bastion Host solution to fortify private server security across 3 distinct subnets, complemented by a single internet gateway dedicated to internet-facing servers.
- Hosted Zabbix on a master node for comprehensive server management, establishing slave connections from 6 distinct servers.

## PROJECTS

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### Personalised Voice Assistant

Aug 2020 – Jan 2022

- Developed a sophisticated system capable of recognizing up to 3 (+1) individual speakers based on their distinct speech patterns, achieving an impressive accuracy rate of 98%.

Tech Stack: TensorFlow, Keras, Python, PyAudio, Flask

### Speaker Identification

Aug 2020 - Mar 2021

- Developed a Speaker Identification model utilizing a 1D CNN architecture, which involves applying the Fast Fourier Transform to the user input voice, converting it into a 1D array for analysis and processing.
- The model was trained with 10 epochs and achieved the accuracy of 98%
- Trained for the 3 speakers having the dataset time of 10 minutes each

## EDUCATION

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### Bachelors in Technology in Computer Science

Vellore Institute of Technology, Bhopal

2019 - 2023

CGPA: 8.54/10

## ACHIEVEMENTS

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- 1k+ reputation in StackOverflow
- Ranked in the top 12 nationwide in Sony's Dream to Reality Contest in India.
- Achieved a distinguished status as a Pro-Hacker on HackTheBox, attaining the world rank of 552.