

# Parth Chudasama

## Software Engineer

A result-oriented Software Engineer with experience in developing and maintaining software projects in production environments. Proficient in Python, AWS with familiarity in other programming languages and API access patterns. Collaborates effectively with team members and stakeholders to develop and implement holistic solutions to business needs.

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## EXPERIENCE

### Software Engineer Cactus Global

08/2020 - Present

#### Achievements

- Spearheaded transition to micro-services architecture, **reduced cost by 30%** and **improved latency by 25%**.
- Reduced inferencing time by **50%** for existing translation models.
- Established comprehensive services from the ground up, leveraging FastAPI for the web framework and AWS for cloud infrastructure.
- Developed a pseudo-data generation module for language translation model, improved **F-score(0.5)** by over **18%**.
- Collaborated with engineering leadership to devise and design innovative solutions for complex challenges.
- Leverage LLMs to ship generative features, built guardrails for safety.
- Crafted a cutting-edge platform for model deployment, leveraging the power of Nvidia Triton and AWS Sagemaker.
- Built data pipelines using SQS and Lambda to process TBs of data.
- Exemplified exceptional leadership skills by expertly guiding and mentoring a team of three developers to consistently deliver superior solutions.
- **Tools & Technologies:** Terraform, AWS services: Lambda, S3, EC2, ECS, EKS, DynamoDB, API Gateway, CloudFormation, SQS; Python, Go, JIRA, CI/CD (CodeDeploy, Jenkins), CDK, FastAPI, Docker, K8, Redis, TensorFlow.

### Junior Developer (Intern) Ajackus

06/2019 - 08/2019

Technology Consultancy & Services

#### Achievements

- Created a dynamic web scraping pipeline, leveraging the power of Python to seamlessly refresh data at regular intervals.
- Devised an advanced Information Extraction module, empowered with the ability to extract pertinent information from unstructured text with an accuracy of **85%**.

## EDUCATION

### Bachelor of Electronics & Telecommunication Engineering University of Mumbai

06/2016 - 11/2020

#### Relevant Courses

- Structured Programming Approach, Database Management Systems, Computer Communication Systems, Neural Networks & Fuzzy Logic.

## SKILLS

Python Java JavaScript Go lang Bash

Machine Learning System Design Git SQL

NoSQL NLP REST API Terraform CDK

CI/CD Adaptability Ownership Collaboration

Agile Development Leadership

## CERTIFICATIONS AND RECOGNITIONS

Awarded 'Rising star of the year' for excellent performance at Cactus Communication.

'Machine Learning for business Professionals' by Google cloud - Coursera.

'Machine Learning Foundations: A Case Study Approach' by University of Washington - Coursera.

## PROJECTS

Automated test paper correction (06/2019 - 07/2020)

- End to end paper correction solution for Teachers/Universities.
- Developed using VueJS and Flask.
- Developed text comparison logic using Universal text encoder.

Speech processing based home automation (03/2019 - 05/2019)

- Automation hub using raspberry Pi.
- Integrated different voice assistants (google, Alexa etc) to control home appliances using voice commands.
- Published a technical paper in DJ Strike.

Classification of facial expressions using Machine Learning (01/2020)

- To investigate new methods for human computer interaction by combining information from the body language of the head to recognise the cognitive states and emotion using AI & ML.

## INTERESTS

Fitness Travel Football Puzzles

Skydiving