

Venkata Narasimha Sai Uday Gattupalli

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EDUCATION

Stony Brook University

MS in Computer Science (GPA: 3.89)

Stony Brook, NY

August 2022 - May 2024

Indian Institute of Technology Bhilai

B.Tech in Computer Science & Engineering (GPA: 3.82)

Raipur, India

July 2017 - May 2021

SKILLS

Skills: Machine Learning | Artificial Intelligence | Data Science | Data Mining | Full Stack Development | Database Design | Information Retrieval | RESTful APIs | Visualization & Visual Analytics

Languages: Python | C++ | Java | C | JavaScript

Development Tools: Flask | MySQL | fast.ai | Node.js | React.js | Git | Docker | Kubernetes | AWS | GCP | Jira | Confluence | Elasticsearch | Postman | PyTorch | Tensorflow | Redis | HTML | CSS | Shell Scripting | Agile Methodology | D3.js

WORK EXPERIENCE

Sterlite Technologies Limited

Software Development Engineer - I

Gurugram, India

July 2021 - July 2022

- Designed, developed, and implemented various features of network switches (in line with the current market switches) in SONiC (an open-source network operating system developed by Microsoft and the Open Compute Project) resulting in the successful integration of 15+ switch models.
- Documented all the findings of function call flows between different containers in SONiC onto Confluence, thereby reducing the training time for new employees by 30%.
- Provided technical guidance to newly onboarded employees with the prerequisites related to Network Operating Systems, SONiC, Docker, and other tools used in the project for the Edge Computing team (the team got recently acquired by Ciena) thereby improving the productivity by more than 25%.

Max Secure Software India Pvt. Ltd.

Software Engineer Intern

Pune, India

May 2020 - August 2020

- Implemented a Proof of Concept (POC) model for malware detection using Convolutional Neural Networks which classified malware into their respective families with an accuracy of 98% & hosted the model in a cloud environment.
- Developed Full Disk Encryption software for Windows environment based on an open-source project, with the implementation of features to store encryption information to the cloud servers via APIs & facilitate remote encryption of disks/volumes/files through APIs thereby reducing manual process by 30%.

International Institute of Information Technology Hyderabad

Software Engineer Intern

Hyderabad, India

May 2019 - June 2019

- Crafted Open Voice web application to receive, manage & store speech data from over 50K users per day via a scalable and distributed cloud infrastructure & REST API integration.
- Devised corpusStorage, speechDataCollection, speechDataTranscription, monetization (payouts module), adminDashboard modules (to collect speech data of various Indian languages from users across the country) for the application leveraging AWS services, reducing operational expenses by 15%.

PROJECTS

Expense Tracker

Full Stack Development (MERN Stack)

- A cross platform app for iOS & android to track personal income & expenses hosted with the help of cloud infrastructure.
- Designed a MongoDB schema to store data and generate insightful reports and graphs on weekly and monthly timelines.
- Automated the process of adding a new transaction from transaction alert mails using Gmail APIs.

Colorizing Black & White Images

Machine Learning

- A project done as a part of Machine Learning course under the guidance of Dr.Sk Subidh Ali at IIT Bhilai.
- Built a CNN model trained on the ImageNet dataset which takes black and white images as input and outputs images with plausible colors by leveraging the properties of CIE L*a*b colorspace.

Analysis of Twitter data for the 2020 US election

Data Analytics & Visualization

- Utilized tweepy library & Twitter APIs to acquire 7.5K tweets, enabling comprehensive sentiment analysis of the public opinion at scale as a part of the Data Analytics & Visualization course at IIT Bhilai.

CERTIFICATIONS & TRAINING

Data Science - Machine Learning Course

IBM OpenPower AI

- A month-long course mainly focused on fundamentals of Data Science, Machine Learning, and Big Data with hands-on learning using open-source tools conducted by the OpenPower foundation of IBM.

Machine Learning Course

Stanford Online

- Learned the mathematics behind supervised machine learning models for prediction, classification, SVMs, Naive Bayes, and how to implement those models using python.