

Venkata Narasimha Sai Uday Gattupalli

🌐 : saiuday73105.github.io/

🌐 : linkedin.com/in/gvn-saiuday/

📧 : saiuday.gvn@gmail.com

📞 : +1 934-221-8552

🐙 : github.com/saiuday73105

EDUCATION

Stony Brook University

- *Master of Science in Computer Science; GPA: 3.95*
Graduate Teaching Assistant (Introduction to Networking)

Stony Brook, NY
August 2022 – December 2023

Indian Institute of Technology Bhilai

- *Bachelor of Technology in Computer Science and Engineering; GPA: 3.82 (8.71/10.0)*

Raipur, India
July 2017 – May 2021

SKILLS

- **Skills & Languages:** DevOps, CI/CD, Machine Learning, Artificial Intelligence, Data Science, Data Mining, Full Stack Development, Database Design, Information Retrieval, RESTful APIs, Visualization & Visual Analytics, Python, C++, Java, C, JavaScript
- **Technologies:** Flask, Django, MySQL, fast.ai, Node.js, React.js, Git, Docker, Kubernetes, GitHub Actions, AWS, GCP, Jira, Confluence, Elasticsearch, Postman, PyTorch, Tensorflow, Redis, HTML, CSS, Shell Scripting, Agile Methodology, D3.js, DB2

EXPERIENCE

Canon U.S.A. Inc.

- *Software Engineer Intern*

Melville, NY

June 2023 - August 2023

- Engineered a data visualization dashboard utilizing React.js and D3.js, integrated with a Python Flask backend, to dynamically showcase trends in marketing notification opt-ins and product registrations for Canon's e-commerce website.
- Devised optimized data extraction strategies to preprocess over 10 million GCP logs efficiently, employing data transformation techniques to ensure seamless rendering in the frontend visualizations.
- Leveraged Google Cloud Platform services for deployment, setting up a scalable infrastructure that handled heavy data loads effortlessly, while ensuring real-time interactivity and responsive user experience in data exploration.

Sterlite Technologies Limited

- *Software Development Engineer*

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).
- Documented all the findings of function call flows between different docker containers in SONiC onto Confluence, thereby reducing the training time for new employees by 30%.
- Mentored new employees with the prerequisites related to Network Operating Systems, SONiC, Docker & other tools used in the project for the Edge Computing team (the team got recently acquired by Ciena)

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.
- Built a Full Disk Encryption software for Windows environment based on an open-source project with new features added to the software such as a provision to send important encryption information to the company's cloud servers via APIs and a provision for system administrators to encrypt a disk, volume or some files remotely through APIs.

International Institute of Information Technology Hyderabad

- *Software Engineer Intern*

Hyderabad, India

May 2019 - June 2019

- Designed, developed, & documented a scalable distributed web application and integrated the modules (corpusStorage, speechDataCollection, speechDataTranscription, monetization (payouts module), adminDashboard) with cloud infrastructure and via RESTful APIs to collect speech data of various Indian languages from users across the country.
- The collected speech data was used to train a Natural Language Processing model which translates speech from one Indian language to another as a part of a Government project.

PROJECTS

- **Obesity in the US: Investigating Factors at Play** | React.js, D3.js, Flask, HTML5, CSS  

- A custom-designed interactive visual analytics dashboard for analyzing and visualizing the key factors affecting the obesity rate using data from across 3000+ U.S. counties.
- Featured in Stars of CSE 564 Spring '23 YouTube playlist by Prof. Klaus Mueller.

- **Expense Tracker** | React Native, Node.js, Express, MongoDB 

- Developed a cross-platform app for iOS and Android to track personal income and expenses using cloud infrastructure.
- Designed MongoDB schema to store data and generate weekly and monthly reports and graphs, and automated process of adding new transactions using Gmail APIs.

- **DNS and DNSSEC Resolver** | Python, Shell Scripting 

- Implemented a dig tool (DNS lookup) to resolve a domain name iteratively using dnspython to fetch A, NS and MX records. Extended this dig tool to resolve domains that have DNSSEC protocol enabled.