Venkata Narasimha Sai Uday Gattupalli

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EDUCATION

Stony Brook University Stony Brook, NY

Master of Science in Computer Science in Computer Science, GPA: 3.95

Aug 2022 – May 2024

Positions: Graduate **Teaching Assistant** for Introduction to Networking

Coursework: Visualization & Visual Analytics, Database Systems, Artificial Intelligence, Computer Networks, Computer Vision, Data Science, Data Simulation & Modeling

Indian Institute of Technology Bhilai

Raipur, India

Bachelor of Technology in Computer Science & Engineering, GPA: 3.82

Jul 2017 - May 2021

SKILLS

Skills: Machine Learning, Artificial Intelligence, Data Mining, Full Stack Development, Database Design, Information

Retrieval, RESTful APIs

Languages: Python, C++, Java, C, JavaScript

Development Tools: Flask, SQL, NoSQL, fast.ai, Node.js, React.js, React Native, MongoDB, Git, Docker, Kubernetes, AWS, GCP, Jira, Confluence, Elasticsearch, Postman, PyTorch, Tensorflow, Redis, HTML5, CSS3, Shell Scripting, Agile Methodology, D3.js, DB2, Terraform, Ansible, CI/CD Pipelines

WORK EXPERIENCE

Canon U.S.A Melville, NY

Software Engineer Intern

Jun 2023 – Aug 2023

- Engineered an interactive data visualization dashboard React.js & D3.js front-end with Python Flask back-end for Canon's e-commerce, boosting insights into marketing opt-ins and product registrations by 25%.
- Devised optimized data extraction strategies to **preprocess over 10M+ GCP logs** from various business systems at Canon efficiently, employing data transformation techniques to ensure seamless rendering in the frontend visualizations.
- Employed Google Cloud Platform services for deployment, resulting in a 50% boost in real-time interactivity and user-responsive data exploration on Canon's e-commerce site.

Sterlite Technologies

Gurugram, India

Software Development Engineer

Jul 2021 – Jul 2022

- Researched, developed, and integrated **network switch features** into SONiC, aligning with current market standards, contributing to a 20% expansion of functionality.
- **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%.
- Mentored 10+ new employees with the prerequisites related to Network Operating Systems, SONiC, Docker, and other tools used in the project reducing the onboarding time for the Edge Computing team (recently acquired by Ciena).

Max Secure Software Pune, India

Software Engineer Intern

May 2020 – Aug 2020

- Implemented a Convolutional Neural Network model for malware detection which classified malware into their respective families with an accuracy of 98% & hosted the model in an AWS cloud environment.
- Enhanced an open-source Windows Full Disk Encryption tool, adding features for **API linked encryption**, **info sharing** and remote encryption by system administrators, resulting in a 15% rise in encryption versatility.

International Institute of Information Technology Hyderabad

Hyderabad, India

Software Engineer Intern

May 2019 – Jun 2019

- Collaborated with 3 departments to design, develop, and document a **scalable & distributed web app** (Open Voice) and integrated the modules with cloud infrastructure via REST APIs to collect speech data of various Indian languages from users across the country.
- Led efficient transfer of speech data, which enabled the training of a vital Natural Language Processing model for 5+ Indian language translation in a Government project.

PROJECTS

Obesity in the US: Factors at Play

Full Stack Development

- Built a **custom-built 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

Full Stack Development (MongoDB, Express.js, React.js, Node.js Stack)

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

DNS and DNSSEC Resolver

Computer Networking

• Engineered a linux like **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.