Venkata Sri Sai Hemanth Indala

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EDUCATION

- **Indiana University Bloomington**   Indiana, USA
  Master of Science in Computer Science   Aug 2023 - Dec 2024

SKILLS

- **Languages and Version Control**: Python, SQL, Golang, Git, Linux
- **Technologies**: Docker, Postman, FastApi, Django, Jenkins, Grafana, Prometheus, Kubernetes, ArgoCD
- **Tools, Databases, and Cloud**: MongoDB, MySQL, Git, Pandas, NumPy, Scikit-learn, Linux, AWS, IBM Cloud

EXPERIENCE

- **IBM-CIO**   Bangalore, India
  Software Developer   Aug 2022 - Jul 2023
  - Led a development team to create 8 APIs using **Python** and the **FASTAPI** framework.These **APIs** streamlined data retrieval from databases through optimized **SQL** queries, resulting in a 30% reduction in query execution time.
  - Implemented data validation procedures using **NumPy** and **Pandas**, which led to a 80% reduction in data errors, and generated automated reports based on validation outcomes, enhancing data accuracy.
  - Played a pivotal role in the development of a **Jenkins pipeline** for project deployment, reducing deployment time by 40% and minimizing manual intervention.
  - Spearheaded the creation of 10 web pages using the **CODEGEN** framework to elevate the user experience

- **IBM-CIO**   Bangalore, India
  Software Developer Intern   Jan 2022 - Jul 2022
  - Pioneered the development of **DB2 Purescale as a Service** on the cloud, building the infrastructure from scratch.
  - Successfully onboarded internal IBM customers to the cloud service, exceeding the target by 15%
  - Created APIs using **Golang** for seamless interaction with the cloud service
  - Utilized **MongoDB** to store and manage user data, improving data accessibility and retrieval times
  - Incorporated **Ansible automation**, resulting in a 20% reduction in manual tasks and increased efficiency

PROJECTS

- **Deployment of Django Application on AWS EKS**: Django, Kubernetes, EKS, IAM, Helm Charts, AWS Load Balancer, Fargate
  - Led the deployment of a Django app on **AWS EKS** with **Kubernetes** and **Fargate**, achieving a 40% cut in deployment time and a 25% cost reduction by enhancing scalability and resource efficiency.
  - Created **Namespace**, **Deployment**, **Service**, **Ingress** and configured **IAM OIDC provider**.
  - Enhanced security and reduced vulnerabilities by 15% by integrating an IAM OIDC provider and creating a custom **IAM policy** for the AWS Load Balancer Controller, ensuring secure and streamlined access management
  - Deployed the AWS Load Balancer Controller via **Helm charts**, significantly increasing application availability to 99.9% and reducing user load times by 40%.

- **Restaurant Recommender System**: Selenium, K-Means Clustering, Cosine Similarity
  - Conducted web scraping of restaurant data using **Selenium**, collecting a dataset of 200 restaurants.
  - Applied **K-Means clustering** to categorize restaurants into 5 clusters based on similarity, enhancing user search experience.
  - Developed a personalized recommendation engine using the **cosine similarity** algorithm, resulting in a 20% increase in user engagement.

- **Doctors Management Application**: FastAPI, S3, MongoDB
  - Designed and implemented a healthcare appointment booking system using **FastAPI**, reducing appointment scheduling time by 60%.
  - Leveraged **S3 buckets** for efficient storage and management of medical reports and documents, ensuring data security and accessibility.
  - Utilized **MongoDB** to store patient and doctor details, resulting in improved data retrieval time by 40%.

LEADERSHIP AND ACHIEVEMENTS

- Surveyed and gathered feedback and expectations from 150 interns from different companies to understand their internship experience and to understand what they were expecting during their internship.