[**SAHITH AITHA**](https://sahith-aitha.netlify.app)

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**Education**

**University of Cincinnati, Cincinnati, OH**  **January 2024- May 2025**

Master of Science, Major in Information Technology

* **Course Work:** Cloud Computing, Linux System Administration, Machine Learning, Cyber Security, Storage Technologies.

**Sreenidhi Institute Of Science and Technology,** Hyderabad, India **August 2019-May 2023**

Bachelor of Technology, Major in Information Technology

* **Course Work:** Linux Administration, Cloud Computing, Machine Learning, Cyber Security, Storage Technologies.
* **Leadership:** Coordinated all technical activities for a National Level Technical Fest with 100,000 attendees, managing events and collaborations with clubs and external agencies.

**Skills**

* **Cloud Computing:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure Cloud, Oracle Cloud Infrastructure
* **DevOps:** Docker, Kubernetes, CI/CD, Jenkins, Linux Administration, AWS CDK, Terraform, Podman, Git
* **AI & Machine Learning:** TensorFlow, PyTorch, OpenCV, CNNs, RNNs and LSTMs.
* **Languages:** Python, Shell Scripting (bash), Java, YAML, C, C++
* **Web Technologies:** HTML5+CSS, JavaScript, SQL
* **Other Skills:** Problem Solving and Analytical skills, Unit Testing, Data Structures and Algorithms

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* Oracle Cloud Infrastructure Foundations Associate  **July 2024**

**Work Experience**

**Graduate Assistant, University OF Cincinnati, Cincinnati, OH** **July 2024 – Present**

* Leading cross-functional teams and managing multiple priorities in a fast-paced environment, ensuring timely and accurate delivery of data projects, while facilitating coordinators' technology projects related to Cloud Computing, DevOps, Machine Learning, and data analysis, and creating a significant impact.
* Conveying complex analytic insights and making them actionable for business improvements, continuously contributing to impactful decision-making.

**MLOps Engineer, University OF Cincinnati, Cincinnati, OH**  **June 2024 - Present**

* Implementing machine learning models and DevOps practices to analyze heart failure readmissions, optimizing predictive accuracy and decision-making, while collaborating with data engineers and developers to turn raw data into actionable insights.
* Utilizing Python, Postgres SQL and, Google BigQuery to clean, analyze, and model large datasets like MIMIC on cloud platforms, delivering valuable insights and improving outcomes, while also working in DevOps environments with Git and CI/CD pipelines.
* Demonstrating commitment to continuous professional development by applying the latest machine learning techniques, DevOps and Cloud technologies to improve patient care strategies and streamlining development workflows.

**Application Engineer, Amazon, Chennai, IN January 2023 -June 2023**

* Developed a cloud-based Java application, to optimize internal processes by automating the detection and reporting of high-severity tickets, reducing manual effort for managers and improving operational excellence.
* Streamlined ticket management processes by implementing workflows for JSON data ingestion and storage in Amazon DynamoDB, enhancing team efficiency and collaborating with cross-functional teams to drive project completion.
* Automated the process of parsing data and sending detailed reports via email, enabling managers to quickly assess team performance without reviewing each ticket manually, significantly enhancing operational efficiency.

**DevOps Engineer, Edu Skills Foundation, Hyderabad, IN March 2022 – May 2022**

* Acquired practical skills in RHEL system administration, configuration, management, troubleshooting, containerization, orchestration and enhancing proficiency in Linux server environments by successful completion of RH124 and RH134 course work.
* Developed expertise in system performance tuning, security management, and network configuration, contributing to effective and efficient Linux system administration.

**Projects**

**Predictive analysis of Heart Patients Re-admission**  **June 2024 – Present**

* Developing a predictive model from heart failure patient data from the MIMIC-III database using SQL to identify ICU readmission, performing exploratory data analysis, and developed queries for actionable insights to improve patient outcomes and optimize hospital resources.

**CI/CD Pipeline with Jenkins on Kubernetes Engine**  **July 2024 – September 2024**

* Provisioned a Jenkins application using Helm on Google Cloud’s Kubernetes Engine to automate continuous integration and deployment, enhancing deployment efficiency by utilizing Kubernetes’ ephemeral build executors and scalable infrastructure.

**Potential High Severity Ticket Notifier Tool January 2023 – June 2023**

* It is a Cloud-based Java application with an architected infrastructure using AWS CDK for resource management, leverages with CI/CD pipelines to streamline development. Utilized AWS Cloud Services and collaborated in a DevOps environment.

**Optimized****Analysis of Emotion through Speech Signals February 2022 - May 2022**

* Developed a Speech Emotion Recognition system using LSTMs, CNNs with the RAVDESS dataset for feature extraction, achieving high accuracy in predicting emotions from speech signals using efficient hyperparameters.