SAHITH AITHA

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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 (RHEL), AWS CDK, Terraform, Prometheus, Git
- **AI & Machine Learning:** TensorFlow, PyTorch, OpenCV, CNNs, RNNs &LSTMs, GenAI.
- **Languages:** Python, TypeScript, Shell Scripting (bash), HCL, Java, YAML, PostgreSQL
- **Web Technologies:** Angular, Spring, NodeJS, React, HTML5+CSS, JavaScript, SQL
- **Other Skills:** Data Modelling, Problem Solving and Analytical skills, Unit Testing, Data Structures and Algorithms

LICENSE AND CERTIFICATIONS

- HashiCorp Certified: Terraform Associate (003) **February 2025**
- Google Cloud Certified Professional Cloud Architect **January 2025**
- Oracle Cloud Infrastructure Foundations Associate **July 2024**

WORK EXPERIENCE

MLOps Engineer, UNIVERSITY OF CINCINNATI, Cincinnati, OH **June 2024 – Present**

- Implemented machine learning models to analyze heart failure readmissions. Collaborating with the team to design and train a predictive model with 85% accuracy. Developed ETL pipelines for MIMIC-III dataset using PostgreSQL & Big Query
- Utilized Python, Postgres SQL and Google Big Query 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
- Demonstrated commitment to continuous professional development by applying the latest machine learning & Deep Learning techniques and Cloud technologies to improve patient care strategies and streamlining development workflows

Graduate Assistant, UNIVERSITY OF CINCINNATI, Cincinnati, OH **July 2024 – Present**

- Analyzing five years of large-scale survey data from students and staff to extract meaningful insights and support data-driven decision-making
- Conveying complex analytic insights and making them actionable for business improvements, continuously contributing to impactful decision-making
- Leading cross-functional teams and managing multiple priorities in a fast-paced environment, ensuring timely & accurate delivery

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

- Developed a real-time ticketing data processing application, to optimize internal processes by automating the detection and reporting of high-severity tickets, reducing manual effort for managers and improving operational excellence by 15%
- 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

DevOps Engineer, EDU SKILLS FOUNDATION, Hyderabad, IN **January 2022 – Nov 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 efficient Linux system administration while performance tuning and network configuration

PROJECTS

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

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

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

- Reduced deployment time by 40% by provisioning a scalable CI/CD pipeline with Jenkins on GKE using Helm. Enhanced deployment efficiency by utilizing Kubernetes' ephemeral build executors and scalable infrastructure

Cloud Crafted – Kubernetes with Terraform **April 2024 – May 2024**

- Automated infrastructure provisioning using Terraform with AWS provider modules, improving deployment consistency by 30%.
- Implemented role-based access control (RBAC) in Kubernetes deployments to enhance security compliance. Streamlined the provision of infrastructure with IaC best practices through terraform and reduced the deployment time and manual intervention

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

- It is a reusable cloud-based Java application with an architected infrastructure using AWS-CDK and TypeScript for resource management, leveraged CI/CD pipelines to streamline development. Utilized AWS & collaborated in a DevOps environment