

AKHIL REDDY BURRI

H.No: 4-10-506/3, Sai Nagar Colony, DVK Road, Nalgonda, Telangana, 508001

+91 8688032423

burriakhilreddy@gmail.com

github.com/b-akhil-reddy

linkedin.com/in/burri-akhil-reddy

Education

University of Hyderabad(UoH)

Integrated Masters of Technology

- Contributed for projects under Cloud and Smarts Lab.

- Electives:** Color Image Processing, Soft Computing, Data Engineering, Internet of Things, Machine Learning, Deep Learning, Distributed Data Processing on Cloud, Meta Heuristics.

CGPA - 9.25/10

Aug, 2019 - Aug, 2024

Narayana Junior College

Senior Secondary (XII)

- Specialized in Physics, Chemistry, and Mathematics.

SCORE - 983/1000

Jun, 2017 - Jul, 2019

Work Experience

Marvell Technology Inc.

Software/Firmware Engineering Intern

- Acquired expertise in deploying microservice applications with service mesh enabled Kubernetes cluster.
- Designed a DPU-based architecture for [Istio Ambient Mesh](#) and [Cilium](#) workloads, slashing 40-80% of compute resources.

Technologies: Kubernetes, Istio, Istio Ambient Mesh, Cilium, Gateway API

Internship - Hyderabad

Jul, 2023 - Jun, 2024

Institute for Development and Research in Banking

Machine Learning Intern

- Engineered FCL methods fortified by differential privacy measures, safeguarding the confidentiality of data.
- Specialized in training large language models specifically tailored for JIDSF task, optimizing performance and accuracy. Utilized PEFT (Parameter Efficient Fine Tuning) to significantly accelerate the training speed of models.

Technologies: FCL(Federated Continuous Learning), Tensorflow, PyTorch

Internship - Hyderabad

May, 2023 - Jun, 2023

Solutions Adda

Machine Learning Intern

- Utilized eBPF technology to implement machine learning models within the kernel space, leading to a 20% reduction in time for performing Flow-Based Intrusion Detection.

Technologies: eBPF, XDP, c++, python3.

Internship - Hyderabad

Dec, 2022 - Mar, 2023

University of Hyderabad

Application Developer

- Streamlined actor monitoring in the Akka framework by designing and developing a visualization layer with a hierarchical structure, eliminating the need for manual status checks.
- Configured remote access on 4 Raspberry Pis to enable distributed training of a neural network model.

Technologies: Scala, Java, Deep Learning, JavaScript, ExpressJS, HTML, CSS, Docker, Shell Scripting.

Internship - Hyderabad

Jun, 2022 - Jul, 2022

Continuum Innovations

Associate Cloud Engineer

- Implemented a robust architecture for a client on AWS using Terraform within a time frame of two weeks.
- Revived a dormant project and accelerated progress through effective persuasion.

Technologies: Terraform, Cloud Computing, DevOps, Linux.

Internship - Remote

Feb, 2022 - Apr, 2022

Projects

File Store Application

UoH

- Crafted a cutting-edge file storage application utilizing Google Cloud Platform's cloud storage, effectively addressing file management complexities by ensuring secure storage, retrieval, and seamless file manipulation.

- Orchestrated the setup of a MySQL database to efficiently store and manage comprehensive metadata associated with files and user details, ensuring authentication and abstraction.

Technologies: Python3, Flask, GCP, MySQL.

Individual

Aug, 2023 - Sep, 2023

[Analytics as a Service](#)

UoH

Group of 5
Aug, 2022 - Dec, 2022

- Developed an automated **Fraud Analytics** service for transactional data utilizing Machine Learning in Spark, serving over **100+** requests per second using a **4-core spark cluster**.
- Deducted **99%** of the time wasted in service configuration through automation.
Technologies: Kubernetes, Kafka, Hadoop, MySQL, Spark, JupyterHub, Apache Super Set.

Face Spoof Detection

UoH

Individual
Sep, 2022 - Sep, 2022

- Trained a Convolutional Neural Network model achieving an accuracy of **98.26%** on unseen data. Safeguarding against face presentation and spoofing attacks.
Technologies: CNN, Python, OpenCV, Keras

[Learning Management System](#)

UoH - Internet Technologies Course

Individual
Nov, 2021 - Dec, 2021

- Engineered a comprehensive LMS web application that revolutionized communication and collaboration between teachers and students.
- Crafted features like seamless course material sharing, streamlined assignment submission, automated grading, curated an interactive noticeboard, and facilitated real-time communication.
Technologies: MongoDB, NodeJS, ExpressJS, EmbeddedJS, HTML, CSS, Socket.io.

[Automated Multi-Node-Kubernetes-Cluster](#)

ARTH

Individual
Mar, 2021 - Mar, 2021

- Fabricated ansible playbooks and roles in automating the configuration of Multi-Node Kubernetes Cluster along with provisioning of Nodes on AWS, cutting down the time wasted by 90% and also eliminated Human errors.
Technologies: Kubernetes, Ansible, AWS.

Computer Skills

Big Data: Hadoop, Hive, Spark, Pig

DataBases: MySQL, MongoDB, Postgres

Mobile App Development: Flutter

Frontend Development: ReactJS, EJS, Astro, Svelte, CGI, HTML, CSS

Backend Development: gRPC, Flask, Express, Json Web Tokens, NodeJS

Programming Languages: Python, C, C++, Java, JavaScript, GO, Scala, Dart, Matlab, Shell Scripting, Scilab, R

DevOps: Ansible, Docker, Podman, Kubernetes, OpenShift, Istio, Cilium, Istio Ambient Mesh, Jenkins, Git, GitHub

Cloud: AWS, GCP, Azure, Terraform, SONiC

ML and AI: NLP, Computer Vision, sci-kit-learn, Deep Learning and Neural Networks(Keras and TensorFlow)

Operating System and Networks: Linux, Kernel Modules, eBPF, XDP, TCP/IP, gRPC, Networking Protocols, Basics of Wireless, 4G, and 5G Networks

Documenting: \LaTeX

Certifications

[Certified Specialist in Containers and Kubernetes](#)

RedHat

SCORE - 295/300

Mar, 2022 - Mar, 2025

Trainings and Workshops

[ARTH Program](#)

LinuxWorld Informatics Pvt. Ltd.

Aug, 2019 - Sep, 2021

[Certified Specialist in Containers and Kubernetes](#)

RedHat

Apr, 2021 - Jun, 2021

[Winter of Doing Stage - 1](#) and [Winter of Doing Stage - 2](#)

CRIO

Jan, 2021 - Jan, 2021

[Deep Learning](#) and [Data Science](#)

AI Planet(DPhi)

May, 2020 - Jul, 2020

Expertise in Docker

IIEC RISE - LinuxWorld Informatics Pvt. Ltd.

Mar, 2020 - May, 2020

Achievements

Secured a rank of 1646 among 75 Thousand+ students , in GATE-2023 with a score of 573 out of 1000	Feb, 2023
Runnerup among 24 teams , in C Treasure Hunt conducted by UoH.	Sep, 2022
4th among 91 participants , in Image Classification Challenge organized by DPhi.	Sep, 2020
Ranked 13121 among 1 Million+ students , in JEEMAINS-2019 and secured admission at UoH.	Jan, 2019