

BHANUPRASADH SANTRA

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EDUCATION

Bachelor of Technology - (CGPA: 7.47),

Nov 2021 – Apr 2025 | Andhra Pradesh, India

Kakinada Institute of Engineering and Technology

- **Relevant Courses:** Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, Statistics

SKILLS

Languages — Go, Python 3, SQL, Bash/Shell, YAML/JSON

Web Development — Flask, REST APIs, Bootstrap 4, Authentication, Web design, HTML 5, CSS 3

DevOps Tools — Docker, Kubernetes, Jenkins, Git, Terraform, Ansible

Cloud Platforms — AWS (EC2, S3, Lambda), Azure, Google Cloud

Databases — MySQL, MongoDB, SQLite, PostgreSQL

Version Control and Deployment — Git/GitHub, GitHub Pages, Heroku, Gunicorn

Development Tools — PyCharm, Jupyter Notebook, Google Colab, Beautiful Soup, Selenium Web Driver, WTForms

Python Applications — Automation, Game Development, GUI Development (Tkinter, Turtle)

EXPERIENCE

AICTE, Google Cloud GenAI Developer Intern - Remote

Jul 2024 – Present

- Developed expertise in Vertex AI and Gemini for building generative AI applications, focusing on tasks like multimodal data processing and model fine-tuning.
- Designed and implemented diffusion models and Transformer-based architectures for AI-driven image generation and text classification.
- Gained hands-on experience with Responsible AI practices, exploring techniques for mitigating bias and enhancing AI transparency and privacy.
- Achieved proficiency in AI model deployment and MLOps workflows, optimizing the deployment and management of generative AI models.

PROJECTS

Automated CI/CD Pipeline for Web Applications

- Designed and implemented a CI/CD pipeline using Jenkins and GitHub Actions.
- Automated testing, containerization with Docker, and deployment to Kubernetes clusters.
- Reduced deployment time by 40% and improved development efficiency.

Infrastructure Automation with Terraform and Ansible

- Provisioned and configured cloud infrastructure (AWS) using Terraform and Ansible.
- Automated scaling and configuration management for high-availability environments.
- Improved infrastructure deployment speed by 60%.

Serverless Application on AWS

- Built and deployed a serverless application using AWS Lambda, API Gateway, and DynamoDB.
- Achieved cost optimization by leveraging pay-as-you-go pricing.
- Integrated CloudWatch for real-time monitoring and logging.

Scalable Microservices on Kubernetes

- Designed a microservices architecture deployed on AWS EKS (Kubernetes).
- Implemented Helm charts for deployment and auto-scaling for traffic spikes.
- Enhanced system reliability and scalability for a high-traffic application.

CODING PROFILES

- Solved more than 200 python problems on Leetcode
- Solved more than 80 SQL problems on Leetcode

CERTIFICATIONS

LinuxFoundationX, LFS167x: Introduction to Jenkins [🔗](#)

Aug 2024

RedHat, RH094x: Fundamentals of Ansible [🔗](#)

Aug 2024