SRIRAM KAMPARAPU

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EDUCATION

Aditya College Of Engineering and Technology   **2022 − 2026**
*Btech - **CGPA** - **7.64***   *Surampalem, India*
Narayana College   **2020 − 2022**
*Intermediate/+2 - **Percentage** - **89%***   *Kakinada, India*

PROJECTS

Inventory Management System | Java, Swing, MySQL, JDBC   **Nov-Dec 2023**
- **Database Connectivity:** Integrated MySQL database, handling up to 10,000+ product entries for efficient storage and retrieval.
- **CRUD Operations:** CRUD Operations: Enabled users to add, view, update, and delete product details with an average response time of ¡200ms.
- **GUI Interface:** GUI Interface: Developed an interactive Java Swing UI, improving user engagement and reducing input errors by 30
- **Search & List Features:** Delivered optimized search functionality, retrieving product details in under 1 second for datasets of 5,000+ records.

Cross-VPC EC2 Communication in Same Region ⧉ | AWS , Networking Concepts.   **Jun-Jul 2024**
- **Technologies Used:**
  - ∗ AWS (VPC, EC2, Cloud9, VPC Peering)
  - ∗ Networking (Subnets, Route Tables, Internet Gateway)
  - ∗ Security (Security Groups, IAM)
- Created two VPCs and public and private subnets in each VPC
- Configured route tables and attached Internet Gateways for public access.
- Established a VPC peering connection for inter-VPC communication.
- Orchestrated public EC2 instances via Cloud9 and manually launched private EC2 instances.
- Utilized public instances as bastion hosts to enable secure access to private instances.

StudentVault ⧉ | Lambda, API Gateway, DynamoDB, IAM, Python, Postman.   **Oct-Nov 2024**
- **Serverless API Development:** Designed and released a student record management API using AWS Lambda and DynamoDB, handling 100+ requests per second.
- **Efficient CRUD Operations:** Integrated Create, Read, Update, and Delete (CRUD) operations via API Gateway, ensuring low-latency data access (̃50ms response time).
- **API Testing & Validation:** Conducted comprehensive testing using Postman, verifying functionality and improving response efficiency by 30%.

CI/CD Pipeline Automation ⧉ | Terraform, Ansible, Jenkins, Docker, AWS   **Feb 2025**
- **Infrastructure Automation:** Provisioned AWS infrastructure using Terraform, including EC2 instances, VPC, subnets, and security groups.
- **Configuration Management:** Configured EC2 instances using Ansible, automating Docker and Jenkins installations.
- **CI/CD Pipeline:** Implemented a Jenkins pipeline for automated application deployment using Docker, reducing deployment time by 40%.
- **Secure Access & Credentials:** Managed SSH access via key pairs and integrated Docker Hub authentication in Jenkins, enhancing security for 100+ builds.
- **Dockerized Deployment:** Built and deployed containerized applications, improving scalability and reducing downtime by 30% using Docker Swarm.
- **Pipeline Execution:** Automated build, test, and deployment workflows, reducing manual intervention by 70% and improving deployment efficiency.

SKILLS / INTERESTS

- Possessing self-discipline and strong analytical abilities.
- Strong communication and independent work abilities
- Proficient in typing with a speed of **75 words** per minute with high accuracy
- **Interests:** Cloud Developer, Machine Learning

EXPERIENCE

Technical Hub   **Feb-Jun 2024**
Intern   *Surampalem, India*
  ∗ Gained experience in Data Structures through C programming as an intern

Technical Hub   **Jun-Jul 2024**
AWS-Developer-Intern   *Surampalem, India*
  ∗ Gained practical experience in AWS cloud computing, including EC2, S3, and Lambda
  ∗ Developed proficiency in infrastructure setup, data management, and application deployment

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, Python
- **Web Developlment:** HTML, CSS, Responsive Design, JavaScript
- **Machine Learning:** Python, Numpy, MathPlotLib, Pandas.
- **Devops:** Ansible, Kubernetes, Selenium, Jenkins, Terraform
- **Tools:** Git, GitHub, GitLab, Linux

CERTIFICATIONS

- **Global Certifications**
  ∗ IT Specialist HTML CSS
  ∗ IT Specialist Python
  ∗ IT Specialist Java
  ∗ Microsoft Certified: Azure AI Fundamentals
- **Course Certifications**
  ∗ Programming essentials in C
  ∗ NDG Linux Unhatched
  ∗ AWS Academy Cloud Foundations

CODING PROFILES AND ACHIEVEMENTS

LeetCode: Engaged in 420 programming challenges on LeetCode.

CodeChef: Achieved Two Star Coder status on Codechef.

GeeksforGeeks: Solved 260 Programs in GeeksforGeeks

HackerRank: 4-star in Problem-Solving.