

Venkata Karthik Draksharam

ASPIRING CLOUD COMPUTING & SECURITY PROFESSIONAL

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Objective

Highly motivated and **dedicated undergrad** with a passion for excelling in Cloud Computing, Networks, and Security domains. Seeking opportunities to leverage technical skills and contribute to innovative companies. Committed to continuous learning and excellence to become an expert in the field.

Projects

- ❖ **Streamlining Kubernetes Deployment: Automated Installation and Configuration with Vagrant**
Incorporating **Ansible** and Shell Scripting, this project aims to orchestrate the seamless deployment of **Kubernetes** through Vagrant, efficiently handling installation and essential configurations, optimizing the entire process for enhanced scalability and manageability.
- ❖ **Three tier high resilient and scalable architecture Web Application** using AWS
Hands-on experience on self-healing architecture of a web application which integrates multiple **AWS** services such as **CloudFormation**, **VPC**, **EC2**, **RDS**, **EFS**, **Auto-scaling groups**, **ALB** and **CloudWatch**.
- ❖ **QR-based Yard Management System** at Rashtriya Ispat Nigam Limited (RINL)
Designed and implemented a QR-based Yard Management System for RINL, successfully integrated **AWS** services (using **RDS**, **LAMBDA**, **SNS** and **Event Bridge**) for efficient CI/CD using GitHub and Mobile Application Development using Android Studio. Streamlined yard operations and **enhanced data accessibility**.
- ❖ **Symmetric Key Based Encryption** using Rubik's Cube
Devised and executed a novel approach to enhance symmetric key generation using Rubik's Cube-based methodologies and **significantly improved encryption key randomness** and data security to Java applications.
- ❖ **Mini Projects:**
 1. **Single-sign-on** in Microsoft AD using Network Policy Server.
 2. **Front-End Web Projects** such as Food Ordering System, Product Suggestion System and Library Management System using HTML, CSS, JS, PHP, MYSQL.
 3. Web Server Hacking using Metasploit.
 4. A demonstration to show the vulnerability of Leakage of **AWS S3 Buckets**.
 5. **HTTPS Decryption** using Wireshark and Man-in-the-Middle (MITM) Attack.
 6. **Network Traffic Analysis** with Wireshark and ML Algorithms

Certifications

- **AWS Certified Solution Architect**
- Microsoft Certified: Azure Fundamentals
- **NVIDIA Certified:**
 - Accelerated CUDA C++ Applications with Multiple GPUs
 - Fundamentals of Accelerated Computing with CUDA C/C
 - Fundamentals of Accelerated Computing with Python
- MATLAB Onramp
- **AWS Web Services Cloud Practitioner**
- Palo Alto Cloud Security Fundamentals
- Certified Blockchain Developer

Skills & abilities

- Languages: **Java**, Python, C, YAML
- DevOps: Docker, Kubernetes, Ansible
- Operating systems: Linux, Windows
- Data Analysis: MATLAB
- Virtualization: Vagrant, VMware, Proxmox
- Web Development: HTML, CSS, MySQL, PHP
- Strong Communication | **Self-Motivated** | Strong Problem-Solver
- Cloud Computing: **AWS**
- Ethical Hacking
- Microsoft Active Directory

Hackathons

- ❖ **Participant in NVIDIA GPU Computing Codeathon.** **JUN 10-19, 2022**
 - Secured 4th position (nationwide) in GPU Computing Codeathon organized by NVIDIA.
 - Demonstrated proficiency in optimizing intricate algorithms for parallel execution through CUDA programming. Collaborated within a competitive, multidisciplinary team setting to address real-world challenges, emphasizing my problem-solving acumen and innovative mindset.

Work Experience

CYBER THREAT INTELLIGENCE & HUNTING EXTERNSHIP, @ STACKNEXUS **JUL 2022 – AUG 2023**

Successfully completed an intensive externship program, enhancing skills in cyber threat analysis and intelligence gathering. Gained proficiency in identifying potential security vulnerabilities and employing threat hunting techniques for proactive cybersecurity.

INTERNSHIP TRAINEE, @ RASHTRIYA ISPAT NIGAM LTD **JUN 2022 – JUL 2023**

Successfully completed internship project on yard management system using AWS, RDS, AWS Lambda and Amazon Simple Notification Service.

DOCUMENTATION LEAD, @ NULL CHAPTER, VIT AP **JUL 2022 – JUN 2023**

Gained experience in coordinating & managing documentation projects that improved communication skills, time management and presentation skills.

Education

VIT UNIVERSITY, AMARAVATI **2020-Ongoing**

BTECH COMPUTER SCIENCE (Spec. Networking & Security), Current **CGPA: 8.65**

NIRMALA JUNIOR COLLEGE, MANGALAGIRI **2018-2020**

CLASS 12, **CGPA: 9.03**

ST ANN'S SCHOOL, CHIRALA **2016-2018**

CLASS 10, **Percentage: 79%**