Rushalle Diya Sureshbabu Poornima

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Graduate student in Computer Science with skills in cloud computing, cybersecurity, and AI. Motivated to develop secure, efficient, and innovative tech solutions through practical and academic experience.

PERSONAL PROJECTS

Intrusion Detection System (IDS) with Snort on AWS

- Deployed an IDS using Snort on AWS EC2 instances to monitor network traffic for suspicious activities. Configured custom rules to detect potential attacks, such as SQL injection and DDoS, and generated alerts for security teams.

Automated Security Scanning in CI/CD Pipeline

- Integrated security tools like SonarQube and Checkmarx into a CI/CD pipeline to automate code scanning for vulnerabilities. Enabled real-time detection of security issues during the development lifecycle, ensuring secure code releases.

Serverless Microservices with AWS Lambda and Kubernetes

- Built a microservice architecture combining AWS Lambda for serverless functions and Kubernetes for containerized services. Leveraged Kubernetes for stateful services and AWS Lambda for event-driven, stateless processing, improving system flexibility and scalability.

AWS IoT Core for Real-Time Device Monitoring

- Developed an IoT monitoring system using AWS IoT Core for managing and communicating with edge devices. Integrated with AWS Lambda and Amazon SNS for real-time alerts, and AWS S3 for data storage, enabling large- scale device data processing and analysis.

Real-Time Sentiment Analysis with NLP and AWS Lambda

- Built a real-time sentiment analysis system using Natural Language Processing (NLP) techniques. Integrated Twitter's API to collect live data, processed the text with NLP techniques, and deployed the model using AWS Lambda for real-time analysis and scalability.

Image Classification with CNNs Using TensorFlow

- Built an image classification model using Convolutional Neural Networks (CNNs) in TensorFlow. Trained the model on a large labeled dataset, achieving 90% accuracy in classifying images into predefined categories, demonstrating proficiency in deep learning.

ACADEMIC PROJECTS

- Software Engineering: Analyzing Vulnerability of Cloud Server in DDoS Attack
- Parallel and Distributed Computing: Stock Market Prediction
- Data Visualization: Indian Budget Visualization
- Information Security and Management: Virus Detection and anti-virus using Python
- Cyber Security: Viper – Advanced Cloud Port Poisoning Malware and Relop Defender
- Image Processing: Image Recognition
- Internet and Web Programming: E-Piggy
- Information Security Analysis and Audit: Server Stress Test using DDoS Attack
- Data Structures and Algorithm: Address Directory
- Artificial Intelligence: Face Recognition using LBP
- Database Management Systems: Windmill Database Management
- Social Media Data Science Pipelines: Sentiment Analysis
- Cultural Association**,** *Team Head Or Team Lead* *March 2022 – 2023*

Led a 35-member dance team at VIT University (2022-2023), ensuring effective communication, team motivation, and conflict resolution. Managed performances, practices, and content creation. Additionally, organized and oversaw five cultural events, handling budgeting, permissions, promotions, and crew coordination

TECHNICAL SKILLS

Languages: C++, C, Java, Python,
Software and OS: **E**clipse,Visual Studio Code, Jupyter Notebook, Git, Linux,Vim
Additional: React, AWS, HTML, CSS,TCP/IP, SQL, Data Visualization, Predictive Analysis.
Certifications: Data Science Foundations, Python for Data Science, Introduction to Ethical Hacking, Ethical Hacking - Mobile Platforms and Network Architecture, Introduction to R, Cyber Security for Leadership, Advanced Cloud Foundations Microsoft Azure Essentials, Introduction to Database and SQL, Front End Development- CSS, Front End Development-HTML

EDUCATION

Binghamton University, State University of New York.
Master of Science in Computer Science *Expected May 2025*
Vellore Institute of Technology, Vellore, India
Bachelor of Science in Computer Science *May 2023*