

KARTHIKEYA PANANGIPALLI

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SUMMARY

Computer Science graduate student with a strong foundation in cloud computing and security. Proven ability to develop and deploy software applications across various domains, including web, security, and data analytics. Seeking a full-time role in the tech industry to apply theoretical knowledge and gain hands-on experience.

EDUCATION

Master of Science in Computer Science

Seattle University, Seattle, WA

College of Science & Engineering

Relevant Coursework:

Expected Graduation: June 2026

4.0 GPA

Bachelor of Technology in Computer Science & Engineering

Andhra University, India

Anil Neerukonda Institute of Technology and Sciences

Relevant Coursework: Artificial Intelligence, Machine Learning, Data Analytics

April 2024

8.93/10 CGPA

TECHNICAL SKILLS

Programming: Python, C/C++, Java, PHP, HTML/CSS, JavaScript, SQL, Shell Scripting.

Core Skills: Linux, Computer Networks, Cloud Computing (Azure, AWS, GCP), Git.

Certifications: Cisco - Junior Cybersecurity Analyst Career Path, Network Technician Career Path; Google Cloud Computing Foundations: Fundamentals, Data, ML, and AI in Google Cloud

PROFESSIONAL EXPERIENCE

Cloud Security Intern : we45 Solutions Pvt Ltd, Bengaluru, India

Nov 2022 – Feb 2023

- Developed and tested labs demonstrating various concepts in AWS, Azure, Docker, Kubernetes, and reduced errors in the production code by over 40%.
- Developed challenges that test user's awareness of OWASP Top 10.
- Implemented over 20 programs in REST API style, effectively integrating user interfaces for enhanced user experiences.

ACADEMIC PROJECTS

Process Manager – A Node.js Based Monitoring and Load Balancing System

Fall 2023 – Spring 2024

Led a team of 5 to design a Node.js application.

- Built a Node.js-based system managing 500+ concurrent processes, improving deployment efficiency by 30% and maintaining 99.9% uptime using Docker and Express.js.
- Enabled zero-downtime deployments through CI/CD integration, reducing deployment time by 50% and speeding up releases by 40% with instant rollback capabilities.
- Achieved 25% faster issue detection with enhanced logging and monitoring.

Pharmacy Management System

Spring 2023

Led a team of 4 to design a web application.

- Designed and implemented an online pharmacy management system with modules for inventory, order, and customer management, automating operations and improving efficiency by 40%.
- Built a user-friendly interface using PHP, JavaScript, and SQL, handling 500+ concurrent users and reducing manual errors by 30% through automated inventory and order tracking.

Movie Recommendation System

Fall 2022

Analyzed data from 4 streaming services' datasets leveraging Python modules such as NumPy and Pandas.

- Performed extensive data cleaning and exploratory data analysis (EDA) on movie data, leveraging libraries like Matplotlib and Seaborn to visualize genre distributions and trends, leading to actionable insights.

ACTIVITIES

IEEE Student Chair, Anil Neerukonda Institute of Technology and Sciences

Sep 2022 – Apr 2024

Multiple leadership roles, including vice-president of the Computer Society chapter and industry relations chair (200 members)

- Organized the First R10 IEEE Summer School 2023 on Networks and Sensors annual workshop.

Executive Assistant, Computer Society of India

Oct 2021 – Apr 2024

Organized a variety of events to foster computer science skills and promote practical application through coding and related activities. (300 members)