

SUMIT KUMAR

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Education

Bennett University

Aug. 2023 – Present

Bachelor of Technology in Computer Science and Engineering (Cloud Computing)

Noida, Uttar Pradesh

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Cloud Computing
- Database Management
- Computer Networks
- Systems Design
- Operating System

Experience

Cisco Networking Academy

May 2025 – August 2025

Networking Intern (Cisco Virtual Internship program)

Remote

- Build a solid foundation in networking essentials, covering key topics like IP addressing, subnetting, routing, switching, and network protocols—crucial for understanding how modern networks operate and preparing for a career in cybersecurity.
- Explore enterprise-level networking using Cisco Packet Tracer and virtual labs, gaining hands-on experience with configuring routers, switches, VLANs, and security features to simulate real-world environments and support your cybersecurity learning path.

Projects

NEXORA *Tools:* [React, Vite, TailwindCSS, Recharts, AWS Lambda, DynamoDB, API Gateway, SNS] 🌐

- Built a modern real-time IoT dashboard with smooth UI, charts, alerts, and device metrics using a cutting-edge React + Vite frontend.
- Implemented a fully serverless AWS backend with Lambda, DynamoDB, API Gateway, and SNS for scalable event ingestion, alerting, and analytics.

SYNAPSE | [Python, Flask/FastAPI, Docker, Kubernetes, AWS (EKS), Terraform, PostgreSQL, GitHub Actions] 🌐

- Developed a cloud-native microservices system using Docker + Kubernetes for scalable, modular service deployment.
- Integrated AWS EKS, Terraform IaC, and GitHub Actions CI/CD to automate cloud deployment and service orchestration.

EARTHPULSE AI | [NLP/ML (spaCy, PyTorch), Google Earth Engine, FastAPI, React, AWS] 🌐

- Developed EarthPulse AI, a Python-based pipeline that scrapes environmental news, applies NLP, and validates events (floods, wildfires, deforestation) with Google Earth Engine (Sentinel-2 NDVI) and interactive geospatial maps (Folium/React, MapboxGL).

Built modular, scalable architecture with Git/GitHub, Docker, and cloud deployment (AWS/GCP), enabling future AI/ML integration for environmental trend forecasting and anomaly detection.

Technical Skills

Languages: Python, Java, C++, Rust, JavaScript/TypeScript, SQL, HTML/CSS

Developer Tools: VS Code, Eclipse, Spline, Github, Cisco Packet Tracer

Technologies/Frameworks: FastAPI, Django, React, Express, Scrapy, spaCy, HuggingFace, OpenCV

Cloud DevOps: AWS, GCP, Docker, Kubernetes, Git, Linux, Bash, Gitlab, Jenkins, Terraform

Geospatial Data Tools: Google Earth Engine, Folium, MapboxGL, PostgreSQL/PostGIS

CS Fundamentals: DSA, OOP, Operating Systems

Certification

AWS Academy Cloud Security Foundations

AWS Academy Cloud Architecting

AWS Academy Data Engineering

Research / Blogs

An Adaptive Security Architecture Using AI, Blockchain, and Quantum Technologies for Resilient Cloud Environments

Serverless Containers: When and Why to Use AWS Fargate over Lambda

Passion / Extracurricular

- Created digital artwork and NFTs using Adobe Photoshop and Blender; actively involved as a member of the WithFoundation NFT platform, demonstrating creativity and engagement with emerging digital art communities.
- Played football at the full-back position in zonal-level competitions and the Bengal League, showcasing strong defensive skills, teamwork, and discipline.