Nikhil Kumar

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SKILLS

- **Languages**: C, C++
- **Web Technologies:** Html, CSS, JavaScript
- **Data Management**: MySQL
- **Tools:** Git, GitHub, Docker, Jenkins, Terraform, Nagios, Putty, Kubernetes
- **Platforms:** Microsoft Windows 8, 10, 11, Linux, AWS
- **Soft Skills**: Problem-Solving Skills, Team Player, Project Management, Adaptability

PROJECTS

- **Kubernetes Website Deployment with Autoscaling:**   -Aug'25
  - Deployed a containerized web application on a Kubernetes Kind cluster, leveraging Docker Hub as he image repository.
  - Created and managed namespaces, deployments and services to ensure organized resource allocation and external Accessibility.
  - Configured VPA to automatically adjust resource and scale up to 10 pods under high load, ensuring performance and reliability.
  - Implemented Kubernetes objects to stimulate production-grade workload management and autoscaling strategies.

- **Infrastructure-as-Code (IaC) Static Site Deployment on AWS:**   -Mar'25
  - Provisioned and automated the deployment of a static website using Terraform, creating AWS EC2 infrastructure with proper security groups, Docker installation, and application containerization.
  - Built and containerized a website using NGINX and Docker, pushed the image to Docker Hub, and orchestrated its deployment on AWS via user_data scripting within Terraform.
  - Implemented Infrastructure as Code (IaC) using Terraform to configure networking (security groups), compute resources, and application deployment on AWS, enabling reproducible and scalable deployments.
  - Achieved full-stack deployment automation using Docker, AWS EC2, Terraform, and NGINX, resulting in a zero-touch provisioning process and a fully functional web application running on the cloud.

- **CI/CD Pipeline with Monitoring:**   -Oct'24
  - Designed and implemented a robust CI/CD pipeline using Jenkins, Docker, and AWS EC2 to automate the end-to-end lifecycle of web application deployment.
  - Integrated GitHub with Jenkins via webhooks to enable automated build and deployment triggers on every code commit, improving development efficiency and release consistency.
  - Configured Docker containers for isolated, repeatable build and deployment environments, ensuring platform-agnostic deployment of web applications.
  - Set up Nagios monitoring to track EC2 instance health, service uptime, and resource utilization, enabling real-time infrastructure visibility and alerting.

CERTIFICATES

- Certified Ethical Hacker (CEH) - Ec-Council   -Dec'24
- Data Structure and Algorithm - Self Placed (Geeks for geeks)   -July'23
- Computer Architecture and Computer Organization (Udemy)   -May'23
- The World of Computer Networking – Udemy   -Oct'22

ACHIEVEMENTS

- 5 Star Rank in C Language – Hacker Rank
- 3 Star Rank in C++ Language – Hacker Rank

EDUCATION

- **Lovely Professional University**   Punjab, India
  *Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.07***
  Since August 2021

- **Elite International School**   Jhajjar, Haryana
  *Intermediate; **Percentage: 82%***   *April 2020 - March 2021*

- **Elite International School**   Jhajjar, Haryana
  *Matriculation; **Percentage: 85%***   *April 2018- March 2019*