

ADDRESS

63A First Floor Sant Nagar East of Kailash New Delhi 110065

CONTACT

- +918375944027
- **29** September 1998
- mrinmaydhar
- Mrinmay Dhar

WORK EXPERIENCE Shaadi Brigade

(May 2019 - June 2019) Student Intern

- Used WordPress as CMS, enabling easier code maintenance.
- Created custom HTML and CSS.
- Used Apache, MySQL, and PHP included in LAMP stack for local testing.
- Direct customers to landing page and boost SEO rankings.
- Schedule **backup** files from websites to local directories on a **hosting** platform.

REFERENCES

Saanvri Kapoor

Co-Founder (+91) 762-204-2778 saanvri@shaadibrigade.com

During the internship he demonstrated good design skills with a self-motivated attitude to learn new things. His performance exceeded expectations, and we wish him all the best for his future endeavors.

EDUCATION

Amity University, Noida **Bachelor of Technology**

(July 2016 -August 2020)

Computer Science and Engineering

7.78

First Division in a batch of 714 students

Bluebells School

International, New Delhi **CBSE**

(May 2013 -May 2016)

10th Standard: 8.6 CGPA 12th Standard: 86.2% Certificate of Merit

CERTIFICATIONS

Duolingo English Test

Duolingo

May 2021

C1 CEFR Equivalent 135 points

SKILLS

Python Linux

Git/GitHub (VCS) Docker/Kubernetes

Jenkins (CI/CD) MS Office **Ansible** System

Automation Administration

LANGUAGES

English Hindi Native Expert Bengali

French Novice

HOBBIES

Native

Assembling PCs

RPi4 Tinkering

PROJECTS

Game Development using C++ https://github.com/mrinmaydhar/Pako-CPP

- Created a game in Turbo C++ using the Borland Graphics Interface (BGI) emulated in DOSBox.
- Setup level design and enhanced VM level optimization in DOS.
- Used memory management features to improve frametimes, reduce jitter and lag.

MNIST Dataset Training and Evaluation https://github.com/mrinmaydhar/MNIST-demo

- Trained and evaluated the MNIST dataset of (60k+10k) handwritten digits on a convolutional neural network (CNN) with an accuracy of 99.45% in under 95 seconds.
- Used a sequential model with 8 layers, and trained them for 15 epochs. Used tensorboard to gather generated scalar data.
- Setup and handled a bare-metal Linux hypervisor with Docker functionality to implement the python code.

Hawkeye

https://gitlab.com/oversight/hawkeye

- Created a filesystem on the seL4 microkernel with logical block device access
- Benchmarked IOPS across various file types, over different storage media. Determined **block level encryption** over filesystem level encryption.

NGC Deployment via Remote Devices

- Used NGC to implement a Docker container for ML/DL training.
- Setup a **hypervisor** to isolate VMs and improve system security.
- Used Kubernetes for orchestration of containers.
- Setup firewalls, fail2ban, custom firewall rules/ports, and IP jails to protect against DDoS attacks.
- Implemented a WireGuard VPN to harden SSH connections. These SSH connections used Host-based authentication to prevent IP/DNS/routing types of spoofing attacks.
- Used port forwarding on the network-control layer to prevent against traffic attacks on common ports.
 - Used a **Dynamic DNS hostname provider** to register dynamic ISP provided DNS to a specific hostname.