

# Aayush Gupta

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## EDUCATION

### JAMIA MILLIA ISLAMIA

#### BS/B.TECH IN ECE

2021-2025 | New Delhi, India

Faculty of Engineering and Technology

### DPSG, MEERUT ROAD

Grad. April 2020| Ghaziabad, India

## LINKS

Github:// [aayush-ag](https://github.com/aayush-ag)

LinkedIn:// [linkedin.com/in/agadmin](https://www.linkedin.com/in/agadmin)

Kaggle:// [agadmin](https://www.kaggle.com/agadmin)

Twitter:// [@agcdev0](https://twitter.com/@agcdev0)

Quora:// [Aayush-Gupta-198](https://www.quora.com/Aayush-Gupta-198)

## COURSEWORK

### UNDERGRADUATE

Computer Architecture

DBMS

Microprocessor

Signal and Systems

Assembly Language

Control Systems

## SKILLS

### PROGRAMMING

Rust • C++ • Python • Javascript

Golang • MEAN Stack • Rails

• C • PHP • CSS

### IN LEARNING

Machine Learning (ML) • Data Science (DS)

### TOOLS

Docker • Terraform • Ansible

PAAS (Heroku, etc.) • IAAS (GCP/AWS) (VM's, VPC Architecture)

Git • Kubernetes • MySQL • MongoDB

Colab • Kaggle • Wordpress • FFMPEG

... and growing

## CERTIFICATIONS

Best Oratory Skills Award (Ryan)

Techno Savvy Award (Ryan)

Solelearn://Javascript

Solelearn://C++

HackerRank://SQL

## EXPERIENCE

### STEALTH STARTUP DEVOPS ENGINEER | FULL-TIME

April 2023 - Present | Canada, Remote

- Logs Review, Resources Install, Deployed and Managed Openstack.
- Managing CI/CD, Docker, Kubernetes, ELK, BARE METAL Deployments.
- MEAN and Monitoring Stacks, Active Monitoring, Linux Development.
- Developed Consul and Vault, other Hashicorps based secure tools.
- Active Discovery, SSL Renew, Certbot,etc.

### UPWORK INC. TOP RATED UPWORK FREELANCER

Oct 2022 - Present | Remote

- Stack Mastery: Proficient in DevOps, programming, CDN, and more.
- Upwork Journey: Over the past 12 months on Upwork, I've earned 30,000+ USD with a stellar track record of 5-star reviews.
- Industry Impact: Contributed to projects with major car manufacturers and Insurance companies, VPN Providers, Healthcare and Personal Projects.
- Tech Stacks: Led projects using Python, Golang, Rust, and front-end technologies, Major Devops and Docker etc. projects.

### WAFERCODE INC. COMPANY OWNER | PART-TIME

Jan 2023 – Present | Remote

- Owner and Team Lead at Wafercode, I lead a dedicated team of 5-10 professionals in delivering end-to-end solutions for business owners and startups.
- Till Updation date, delivered 200+ projects, have consistently met client objectives and industry standards.
- Have excellent recurring and trusted clients whom we are thankful and promptly work with.

### STEALTH STARTUP (HEALTH-TECH) GOLANG DEVELOPER AND DEVOPS ENGINEER | FULL-TIME

Jan 2023 – Apr 2023 | United States, Remote

- Engineered a robust Golang-based system incorporating websockets for real-time communication in a health-focused application.
- Successfully deployed the full Application,API Gateway on Ubuntu based EC2 AWS and Digital Ocean as Failover.
- Orchestrated containerized applications using Docker, optimizing scalability and resource utilization.

### GOOGLE SUMMER OF CODE 2022 GSOC INTERN@ JITSI | INTERNSHIP

May 2022 – Aug 2022 | United States, Remote

- Collaborated on the development of the Jitsi open-source project, a Python-based video conferencing platform ([jitsi.org](https://jitsi.org)).
- Implemented and maintained Bash scripts for seamless integration with cloud storage services, including Dropbox and Google Drive.
- Enhanced the platform's functionality to enable the upload of meeting recordings to cloud storage upon user request.
- Managed OAuth details from service providers, ensuring secure and reliable authentication mechanisms.

# PROJECTS

## **HOSTEL MANAGEMENT SYSTEM | BACKEND DEVELOPER FASTAPI**

Python

Feb 2023 – Mar 2023 |

Worked with Fellow CS Students to make a Hostel Management System, solely made backend of App FASTAPI based CRUD System with Login and Logout. Used Python, MySQL, Cookies-Json Web Token.[Github Link](#).

## **HOME AND CLOUD LAB SETUP | SYSTEM ARCHITECT AND**

ADMINISTRATOR

Ongoing | Home and Cloud Environments

- Designed and implemented a comprehensive home and cloud lab infrastructure for personal projects and experimentation.
- Architected deployment strategies for various applications, ensuring scalability, security, and high availability across on-premises and cloud environments.
- Utilized technologies such as Docker, Kubernetes, FreeNAS, and ZFS pools to optimize resource utilization and data management.
- Configured a media server for streaming and managing multimedia content.
- Implemented a data warehouse for efficient data storage and retrieval in both local and cloud environments.
- Hosted a variety of self-hosted applications for different purposes, including productivity tools, converters, and more.
- Implemented Single Sign-On (SSO) using Keycloak with additional security provided by YubiKey for unified and secure authentication across services.
- Configured and maintained around 100+ applications, ranging from small utilities to larger open-source projects.
- Utilized Rclone to mount cloud storage services like Dropbox, Google Drive, and implemented rsync for backup solutions.
- Implemented snapshot mechanisms for data protection and recovery.
- Established a self-hosted VPN and SOCKS server hosted on a variety of servers for secure remote access.
- Integrated a remote Windows VM using Proxmox for virtualization and management.
- Implemented additional security measures, including YubiKey for authentication and encryption.
- Configured a personal VPN for secure and private communication.
- Documented the entire architecture and setup for future reference and knowledge sharing.