

# Vibhu Agarwal

Cloud Enthusiast | Full-Stack Developer

I love softwares and to design, architect and develop them as well. From ideation to deployment, I've worked in most of the phases of a software development cycle and in different teams. Now, I yearn to work on high-traffic products, through which I wish to learn the intricacies of developing highly scalable applications.

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## WORK EXPERIENCE

### Software Engineer

Nference

10/2022 - Present

Bengaluru, India

- Engineered Workspaces (WS), facilitating direct access and analysis of 12M patient EMRs, managing 100+ daily workspaces across 10+ active environments
- Led WS-related UI apps and APIs, developing features like models-mgmt, cost-configs, dashboard and exports
- Optimized file-transfers, reducing disk space usage by 75% and eliminating in-memory file-buffering employing custom parsers and concurrent streaming I/O
- Container management: decreased image-size by 30%, reduced startup time from 8 to 5 minutes, and improved extensibility
- Monitor and inspect containers (logs, metrics, commits, layers, network), machines and storage volumes
- Migrated applications to K8s and wrote Helm charts
- Wrote multi-cloud (GCP, Azure) bucket ops Python library for common use across several applications
- Tech Stack: Python, GoLang, React, Shell, Kafka, Django, MongoDB, MySQL, Docker, GKE, AKS

### Associate Software Engineer

PlaySimple Games

02/2022 - 09/2022

Bengaluru, India

- Created Jigsaw (Flutter), achieving 100k+ downloads
- Enhanced build performance, decreasing launch time from 8+ seconds to 3 seconds through multi-threading for pre-processing
- Implemented trackable and A/B testable solutions

### Backend Developer

Viga Entertainment Technology

03/2020 - 12/2020

Remote/Bengaluru

- Designed database model and created APIs for a Movie-Asset storage and management system (MERN stack)
- Led engineering efforts for a Movie Collaboration platform, resulting in 3 movie projects
- Developed Single-Sign-On using Django to centralize authorization of 10+ different service servers
- Manage and deploy services on Google Cloud Run
- Created CI/CD pipelines using GitHub and TravisCI

## EDUCATION

### Computer Science and Engineering (Dual B.Tech. & M.Tech.)

Jaypee Institute of Information Technology

08/2017 - 05/2022

Noida

## SKILLS

Python

JavaScript

Go

SQL

Docker

Kubernetes

Helm

GCP

AWS

Azure

NodeJS

Django

MongoDB

React

## OPEN SOURCE

Contributions to Encode

Primarily contributed to *uvicorn*, a lightning-fast ASGI server implementation [Major: [#1026](#) - HTTP/2 Implementation]

## PERSONAL PROJECTS

Hedwig, the Messenger (2021)

- Developed an asynchronous web-server plugin for chat applications with multiple rooms and participants
- Built using FastAPI, websockets, MongoDB for storage, and Redis Pub/Sub for message queueing and caching

Binge-o-Philia - Cinephiles' Social Network (2020)

- Developed a full-fledged social networking platform tailored for movie enthusiasts, facilitating connection, updates, and efficient time and data management
- A cross-platform app developed in React-Native powered by Django-based back-end (PostgreSQL and AWS for data storage)

Ministry of Statistics and Programme Implementation (MOSPI) - Website (2019)

- Developed a Django-powered website for MOSPI, automating data processing, analysis, and reporting from Excel sheets to streamline workflow and boost efficiency, which achieved 1st Runner-up at Smart India Hackathon 2019 in Guwahati, Assam

## TALKS AND ACHIEVEMENTS

Speaker | PyCon Australia 2021

Delivered talk on web-servers ecosystem at the PyCon AU

Speaker | PyCon India, PyCon Sweden 2020

Delivered talks on "Developing a Single-Sign-On Service using Django" at the Python Conference India and Sweden

GCP Quest Leader | Qwiklabs (07/2019 - 06/2020)

Delivered a talk on GCP and hosted Cloud Study Jam at GDG IIIT, Noida, drawing 300+ students from Delhi-NCR

## ORGANIZATIONS

Google Developer Group, IIIT (08/2018 - 05/2021)

Technical Coordinator - workshops, conferences and hackathons

## INTERESTS

Software Packaging

Documenting

Mentoring