

# Vibhu Agarwal

Web 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.

vibhu4agarwal@gmail.com ✉

+91 8953813600 📞

vibhu-agarwal.github.io 🌐

linkedin.com/in/vibhu4agarwal 🌐

github.com/Vibhu-Agarwal 🔄

## WORK EXPERIENCE

### Software Engineer

Nference [🔗](#)

10/2022 - Present

Bengaluru

- 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
- Tech Stack: GoLang, Python, React, Shell, Docker, Kafka, Django, MongoDB, MySQL, GCP

### Associate Software Engineer

PlaySimple Games [🔗](#)

02/2022 - 09/2022

Bengaluru

- 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, driving the agile loop

### Back-end 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)
- Created custom SDL for APIs of Movie-Data Analytics software (MongoDB Aggregation Framework)
- Developed Single-Sign-On using Django to centralize authorization of 10+ different service servers
- Led engineering efforts for a Movie Collaboration platform, resulting in 3 movie projects
- Wrote tests (Python & JS), aiming for 90%+ coverage
- Manage and deploy services on Google Cloud Run

## EDUCATION

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

Jaypee Institute of Information Technology

08/2017 - 05/2022

Noida

## SKILLS

Python

JavaScript

Go

Dart

Django

NodeJS

Flutter

React Native

AWS

GCP

MongoDB

Docker

Testing

## 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 *DSC IIIT, Noida*, drawing 300+ students from *Delhi-NCR*

## ORGANIZATIONS

Developer Student Clubs, IIIT (08/2018 - 05/2021) [🔗](#)

Technical Coordinator - workshops, conferences and hackathons

## INTERESTS

Software Packaging

Documenting

Mentoring