

# Vibhu Agarwal

Python 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 intricacies of developing highly scalable applications.

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## EDUCATION

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

Jaypee Institute of Information Technology,  
Noida 🔗

08/2017 - 05/2022

## WORK EXPERIENCE

### Back-end Developer

Viga Entertainment Technology 🔗

03/2020 - 12/2020

- Designed database model and created APIs for a Movie-Asset storage and management system (MERN stack)
- Created custom SDL for Web-APIs and wrote queries for Movie-Data Analytics software to derive insights (MongoDB Full-Text-Search and Aggregation Framework)
- Developed Single-Sign-On (SSO) to authenticate different products offered by Viga Studios (Django)
- Wrote unit-tests and integration-tests for back-end of applications in Python and Javascript
- Containerized back-end applications (Docker) and deployed the same on Google-Cloud-Run
- Created CI/CD pipelines using GitHub and TravisCI

### Back-end Web Developer, Intern

Creesync Software 🔗

05/2019 - 08/2019

- Worked on back-end and front-end of an e-commerce website (Django 2.x)
- Restructured RESTful APIs (Django) and managed databases (Postgresql, MySQL, Sqlite)
- Worked with GCP and AWS for web-app deployments

## OPEN SOURCE

Mentor - Kharagpur Winter of Code (2020) 🔗

Mentored students on Attendance-Management-using-Face-Recognition and potter-spells (python-package) projects

Mentor - IIIT Month of Code (2019) 🔗

Mentored contributors on two projects from Marauders organization  
Shared resources & promoted good practices of open-source overall

Contributions (2018 - Present) 🔗

Contributed to a number of organizations: encode, pandas-dev, razorpay, kivy, pythonindia, django, react-navigation, Marauders

My not-so-popular projects 🔗

Published packages, web/desktop/mobile applications, CLI-tools, voice-first-apps and others

## SKILLS

API Development

Django

NodeJS

MongoDB

React Native

AWS

GCP

Docker

Testing

Web Crawling

Python

JavaScript

## PROJECTS

Hedwig, the Messenger (05/2021) 🔗

- An asynchronous web-server plugin which supports chat applications having multiple rooms/groups, each having two or more participants
- Hedwig is built using FastAPI and websockets. MongoDB is used as the persistent storage, whereas Redis is used as the caching layer for messages - its Pub/Sub feature is used for triggering sending/receiving of messages

Binge-o-Philia - Android/iOS (04/2020 - 07/2020) 🔗

- A full-fledged social networking platform developed for movie enthusiasts - to keep them connected, updated and well managed of their time, activities and data
- 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 (03/2019) 🔗

- A Django powered Website made for MOSPI to automate the tasks and reduce their manual workload to read raw data from excel sheets, re-plot them, make calculations, report statements and view insights

## TALKS AND ACHIEVEMENTS

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, attended by over 300 students from across Delhi-NCR region

1st Runner-Up | Smart India Hackathon (03/2019) 🔗

At Grand Finale of SIH2019 for the Ministry of Statistics and Programme Implementation, Government of India

## ORGANIZATIONS

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

Technical Coordinator - Organized workshops, conferences and hackathons. Taught and mentored fellow students about several technologies ranging from static websites, managing databases and handling back-end servers

## INTERESTS

Software Packaging

Documenting

Mentoring

Teaching

Robotics

Football