

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.

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WORK EXPERIENCE

Software Engineer Nference

10/2022 - Present

Bengaluru

- Work on Workspaces (WS), facilitating direct access and analysis of 12M patient electronic medical records
- Lead WS-related UI apps (React) and work on backend (GoLang) backed by MongoDB, developing features like models-mgmt, cost-configs, dashboard and exports
- Manage apps & WS images (size, build & startup time, extensibility) and GCP OS-Images
- Monitor WS and inspect containers (logs, metrics, commits, layers, network), machines and storage volumes
- Work on provisioner (Python, Shell, docker-compose) service with event integration through Kafka

Associate Software Engineer PlaySimple Games

02/2022 - 09/2022

Bengaluru

- Developed Flutter-based Jigsaw app (involved animations intensive features)
- Analysed, studied and implemented different ways to optimise the performance of builds
- Implemented revenue-generating features like Payments and Advertisements

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 Web-APIs and wrote queries for Movie-Data Analytics software to derive insights (MongoDB Aggregation Framework)
- Developed Single-Sign-On using Django to centralize authorization of more than 10 different service servers
- Led engineering efforts for a Movie Collaboration platform, resulting in 3 movie projects (including a short film)
- Wrote unit and integration tests for applications (Python & JS), targeting coverage over 90%
- Containerized and deployed backend applications 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 (05/2021)

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

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

- 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 (03/2019)

- 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