

Himanshu Agarwal

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ABOUT ME

Experienced Software Developer with 6 years of professional expertise in Python development and a strong foundation in Computer Science. Currently working on NVIDIA's latest GPU firmware using Python and OpenBM, contributing to low-level hardware and system integration. Previously led the enhancement of a Django-based product to better meet client needs, improving performance and functionality. I am passionate about solving complex technical challenges and continuously expanding my skill set in modern software development and system programming.

WORK EXPERIENCE

Nvidia – remote, India

City: remote | Country: India

Senior Software Developer

[17/01/2025 – Current]

- Contributing to firmware development and updates for NVIDIA's latest line of GPUs using Python, Redfish APIs, and internal toolsets.
- Implementing automated testing and validation pipelines using Robot Framework for continuous integration and quality assurance.
- Utilizing OpenBMC and IPMI tools to perform low-level system testing and interface with baseboard management controllers.
- Collaborating with cross-functional teams to ensure robust firmware functionality and seamless integration with hardware platforms.

Scantist – Singapore, Singapore

City: Singapore | Country: Singapore

Senior Software developer (Contract)

[11/09/2022 – 10/11/2024]

- working as Senior Backend developer and responsible for making an improved version of the current product to make it an industry level product. Revamping the code base using PEP8 and SOLID principles.
- worked heavily with LLM and integrated their 3rd party APIs to our system.
- Created new Data Pipelines to reduce the API response time and make it more scalable. Created new REST APIs using python.
- I am using SQL and NOSQL databases like PostgreSQL, for cloud AWS and GCP, Pydantic, Typing, CI/CD pipelines, C#, Docker for containerization, GIT for version control, using React.js in Frontend and Kubernetes on devops side, python in backend while working in an Agile environment.
- Using FastAPI, Redis-celery for the server side cache and use of Async APIs to increase the user experience and reduce the response time.
- Dividing the single Django project into multiple Apps to reduce load of the current application and introducing microservices architecture. Also writing Test cases using the Django library and using tools like postman, visual studios for debugging and troubleshooting.
- I am responsible for guiding 2 interns and their work product.
- My responsibilities also include Doing code review of other developers and improving the overall quality of the code base.
- I also wrote protocols which are to be followed in backend development.


 **Netguru** – Remote

City: Remote

Software Engineer (Contract)

[30/11/2020 – 13/08/2022]

Worked on multiple web applications mainly using Django, FastAPI and Flask. moving application from monolith to microservices architecture. training client side of developers, Developed and managed API. using python as the primary language, Mainly used AWS, docker, git, GCP, redis-celery for python frameworks. **worked under B2B contract**

 **Amdocs** – Pune, India

City: Pune | Country: India

Software Developer

[09/08/2019 – 21/09/2020]

- Developed a Django-REST based Web-application for the global People-analytics team, used the MongoDB for the database management, designed the frontend using React, Bootstrap. Deployed it on AWS. Currently used by 13000 employees on a daily basis.
- Developed a Flask based application to automate the process of getting the details of suitable candidates for specified roles from LinkedIn. I used selenium, python, and Sqlite to make the project. Using this application organization saved \$50,000/ year and reduced human effort by 3 hours per day.
- Implemented a Django based web application to showcase AI-generated personalized learning for each employee, created a dashboard to keep track of the progress, set goals etc., using python, react to make this project, it is currently used by 17000 Indian employees. Deployed on AWS.

EDUCATION AND TRAINING

Bachelor of Technology, Computer Science

Vellore Institute of Technology [05/07/2015 – 24/07/2019]

City: Chennai | Country: India

SKILLS

Python, Django, Flask, Numpy, Pandas / MySQL, SQL, SQLite, PostgreSQL / Git, Bitbucket, Gradle, CI, Jenkins, JIRA, Docker / REST API / CI/CD / No SQL / AWS / Celery / Redis / LLM / Open APIs / Javascript / Linux / react.js / FastAPI / Pydantic / OpenBMC / Robot / IPMI / Redfish