Sandeep Chauhan

Python/Django Developer

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Website

Moradabad, India

EXPERIENCE:

Full-stack Developer - Remote Inning (Remote) - (*July 2021 - Present)*

Working with multiple international clients in the finance and non-profit tech sector.

Hypha (Open-source Submission Management Platform)

- Enhanced an OSS (currently used by OTF and ~10 adopters) to improve its operational efficiency, flexibility, security, and long-term maintainability**.**
- Designed and implemented co-applicant functionality to support multi-user access with customizable permissions, allowing applicants to share tasks with their team members.
- Increased staff productivity significantly through strategic updates to their dashboards, automating task tracking via a dynamic to-do list, and removing redundant information.
- Enabled non-technical staff to make dynamic changes independently by implementing feature flags and optimizing the Wagtail admin interface for flexibility and ease of use.
- Built an internal system for the post-application processes, including budget approvals, contracting, invoicing, and reporting to cut off third-party software costs and streamline workflows inside Hypha for the Finance and Compliance team.
- Replaced jQuery-based fancybox modals with Alpine Dialog and optimized pages using Htmx and Alpine.js to reduce page load time. Improved UI and code maintainability by adopting Tailwind CSS.
- Delivered a customized Hypha for UAF and supported other adopters by maintaining stable, reusable core features and resolving reported issues.
- **Impact**: Supported high-impact organizations, many managing multi-million to billion-dollar global funds, working towards internet freedom, human rights, etc.

The Motley Fool (Financial and Investment service provider)

- Built a dynamic service plans interface integrated with Wagtail, allowing non-technical admins to update content and plan details without requiring developer involvement.
- Developed a real-time ticker bar with swiper.js to display trending quotes and indexes, and made it fully configurable via Wagtail snippets and streamfields.
- Implemented dynamic promotional and alert banners to highlight events, offers, and important updates, enhancing user engagement across the site.
- Introduced full editorial control over navigation menus, categories, subcategories, and footer content through a flexible Wagtail admin interface.
- Maintained and upgraded the libraries and frameworks for better performance, stability, and user experience.
- Developed new features and resolved existing bugs across multiple internal packages enhancing system functionality and minimizing downtime.

Python/Django Developer - **Eoraa**(Remote) - (*April 2020- July 2021*)

- Led the backend team for key-door management software, focusing on development, security, and seamless integration with hardware systems.
- Developed and maintained 100+ APIs using DRF for admin dashboard and CMS.

- Set up CI/CD pipelines and deployed the software on AWS, configuring multiple environments for development, staging, and production.
- Configured AWS WAF, classic load balancer, and related services to ensure a secure, maintainable and scalable production environment.
- Successfully migrated an old PHP-based web application to a new tech stack using Django and PostgreSQL. Achieved a 10x reduction in data migration time through the optimization of queries and implementation of advanced techniques.

PROJECTS / INTERNSHIPS:

- **Spoonshot** - Intern - (May - Aug 2019)

  Enhanced crawler and scraper performance by 10x by developing optimized features and APIs using Django.

  Built a custom proxy manager to bypass ip blocks. Collaborated closely with data scientists to maximize the value of extracted data.

  Tech: Python, Django, jet, mysql, selenium, grafana, indexdb

- **Google Summer of Code** - Intern - (May - Aug 2018)

  Built Hydra, a CLI client for hydrus(Hypermedia REST APIs), using Redis as a graph datastore and OpenCypher for querying.

  Dockerized the tool and developed a minimal web UI to make API interactions more accessible.

  Tech: Python, Flask, Redis, REST APIs, Docker

- **GPT Clone** - Project

  Built a lightweight ChatGPT-style interface with Django, Htmx and GPT4All to explore LLM, and gen-AI. Focused on backend integration of LLMs and prompt-based interactions.

  Tech: Python, Django, Htmx, GPT4All, LLMs, Gen-AI

- **Backend APIs** - Project

  Developed basic auth APIs to explore key concepts such as JWT Auth, Sendgrid integration, user activation, user role based permissions, multi-environment settings configurations and deployment to live servers.

  Tech: Python, Django, DRF, JWT, Sendgrid, Heroku, Linux

EDUCATION:

Bachelor of Technology (*2016-2020***)**
Shri Mata Vaishno Devi University, Katra, India

SKILLS:

Proficient - Python, Django, Wagtail, DRF, PostgreSQL, Git/Github.

Familiar - React, Javascript, jQuery, Alpine, Tailwind, Htmx, AWS, Heroku, Docker, Linux, Bash