


Abhinav Singhal Associate Backend Developer

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EXPERIENCE

Deeptek Medical Imaging Ltd., Associate Backend Developer 02/2024 – present

- Revamped the backend architecture of a Django-based platform, transitioning it from supporting 6 districts to scaling across all of India. Introduced Celery for task scheduling, improving processing efficiency by 40%.
- Designed and implemented RESTful APIs that handled increasing traffic volumes while ensuring robust data integrity and system uptime, enabling real-time health data insights.
- Led the architectural redesign of a Medical Imaging solution, isolating the DICOM inferencing module into a separate container for enhanced performance, security, and ease of updates.
- Added a subscription management system in the Imaging solution, utilizing PyArmor to obfuscate the codebase, significantly reducing piracy risks and ensuring secure licensing.
- Implemented end-to-end encryption for all data fields stored in the database, protecting sensitive medical records from unauthorized access or tampering.
- Collaborated with the QA team, establishing a comprehensive API testing framework with Apidog, resulting in a 25% reduction in post-deployment bugs and faster release cycles.

Amazon Development Centre, Support Engineer II 07/2023 – 01/2024

- Demonstrated proficiency in automating repeated steps, thus attaining a reduction in manual effort by 30%.
- Administered the deployment and ensured scaling of critical services to obtain optimal functionality of Amazon's Just Walk Out stores, contributing to the successful launch of new stores at different locations.
- Proactively strategized solutions to tackle deployment and software glitches, pinpointing root causes and swiftly patching bugs in the codebase to maintain smooth operation.

EDUCATION

B.Tech in Computer Science, ABES Engineering College 2019 – 2023 | 8.2 GPA

Senior Secondary, The Asian School 2018 – 2019 | 83.4%

PROJECTS

MyGurukul : College Management System

- Coacted in the development of MyGurukul, a comprehensive college management system built using Django.
- Collaborated with skills in *database design*, *API integration*, and *UI/UX development*, resulting in a user-friendly platform streamlined for faculty, students, and admins.

SKILLS

Python, Django / Flask / FastAPI, C/C++, Selenium, SQL, MongoDB, GIT, Docker

TOOLS

Selenium, Pyarmor, Apidog / Postman, Github

ACTIVITIES

Enigma Programming Club

- Responsible for the management of bootcamps for freshers aiming to familiarise multiple coding languages and platforms.
- Developed leveled test problems for club recruitment interviews.

HUHC (Help Us to Help the Child)

- Volunteered at the NGO that provides education to underprivileged children in the Ghaziabad region.
- Contributed devotion to the organization's efforts to provide primary education to needy children.