


# Abhinav Singhal

Software Development Engineer

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## EXPERIENCE

**Deeptek Medical Imaging Ltd.,** Software Development Engineer 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 and caching mechanisms, 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.