ARYAN AGRAWAL

Software Development Engineer (Full Stack)

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Professional Summary

Full Stack Software Engineer with **2+ years of experience** delivering scalable applications using **Python (Django)**, **React.js**, **Next.js**, and **TypeScript**. Strong in **REST APIs**, SQL databases, microservices, and production debugging.

Experience

Onsitego   **Aug 2023 – Present**
Software Development Engineer   *Bangalore, India*

- Developed and owned full-stack features using **Django REST Framework**, **React**, and **Next.js**, supporting **10k+ daily users** across internal and customer-facing workflows.
- Designed and implemented a **modular Lead Management System (LMS)** that automated lead routing, lifecycle state transitions, validations, and role-based views, reducing manual effort by **35%**.
- Built a **gamified referral system** with reward tracking, eligibility rules, and fraud prevention checks, improving organic customer acquisition.
- Delivered a **fault-tolerant payment gateway microservice** with idempotent APIs, retries, and failure handling, processing **5,000+ transactions/day**.
- Enhanced backend throughput by **40%** using Redis caching, SQL query optimization, and Celery-based asynchronous processing.
- Built a **Visit Management and Audit system** for retailer and service-center inspections, enabling structured field audits via mobile and web interfaces.
- Implemented **ASM/BSM/RSM-specific audit workflows** with role-based questionnaires, conditional scoring logic, **geo-fenced check-ins**, image-based evidence capture, timestamped submissions, and automated escalation for failed audits.
- Collaborated with product, QA, and design teams to deliver stable releases and debug production issues in a fast-paced Agile environment.

Onsitego   **Mar 2022 – Jul 2023**
Software Developer Intern   *Bangalore, India*

- Delivered **Over-the-Air (OTA)** update capability for React Native apps using Microsoft CodePush, reducing release cycles from days to minutes.
- Boosted mobile performance by **6×** using lazy loading, optimized bundles, and asset management techniques.
- Developed responsive UI components using **React**, **TypeScript**, **HTML5**, **CSS3**, and **Material UI**.
- Integrated Django REST APIs with frontend applications, improving API consistency and reducing UI-related defects.

Projects

Pixeldrape.ai   **2025**
Freelance Full Stack Project   *https://pixeldrape.ai/*

- Built an end-to-end **virtual try-on web platform** enabling users to upload photos and generate apparel try-on results.
- Owned the complete **frontend and backend implementation**, including file uploads, API orchestration, and UI rendering.
- Integrated a **client-provided AI model** into a production-ready workflow with secure APIs and fault-tolerant request handling.

Technical Skills

Languages: Python, JavaScript (ES6+), TypeScript, SQL

Frameworks: Django, Flask, React.js, Next.js, React Native

Databases: MySQL, PostgreSQL, MongoDB

Tools: Docker, Redis, GitHub Actions, Sentry, Jira

Education

Lovely Professional University   **Jul 2019 – Jul 2023**
B.Tech. in Computer Science and Engineering (GPA: 8.37/10)   *Punjab, India*