

Abrar Khan

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EXPERIENCE

Software Development Intern

January 2026 – July 2026

Code Alpha (Remote)

- Designed and shipped Python/Django server-side modules exposed through REST API endpoints, giving teammates stable interfaces to integrate against and helping features reach delivery faster.
- Root-caused and fixed 5+ critical backend defects (counted as resolved issues), restoring API reliability and reducing the test failures they caused.
- Wrote automated unit tests that verify endpoint behavior, so regressions are caught before release; this reduced regression defects.
- Added REST API validation checks to confirm responses and error handling stayed correct as the codebase changed.
- Used Git/GitHub branching and peer code reviews so changes merged safely without breaking teammates' work.
- Worked in Agile sprints with a cross-functional team, meeting sprint goals on schedule.

PROJECTS

LiftNShift – Full-Stack Booking Application with AI Integration

[GitHub](#)

React, Redux, Java, Spring Boot, Hibernate/JPA, MySQL, REST APIs, Google Gemini API (LLM), Razorpay, Bucket4J

- Built a full-stack app: React/Redux frontend consuming a Spring Boot REST API backed by MySQL, with Razorpay payments, OpenRouteService routing and the Google Gemini LLM API integrated.
- Hardened the backend: diagnosed and fixed Hibernate lazy-loading exceptions, database lock-wait timeouts and SMTP failures using @Transactional and JPQL fetch-join queries.
- Prevented API abuse with Bucket4J rate limiting (Token Bucket algorithm) and added global exception handling (@ControllerAdvice) and DTOs for consistent, safe API responses.

LazyMealz – Full-Stack Meal Planning Platform

[GitHub](#)

Python, Django, Django REST Framework, PostgreSQL, Redis, HTML, CSS, JavaScript

- Designed an 8-table normalized PostgreSQL schema with 10+ CRUD operations behind Django REST APIs, powering recommendations based on 5+ dietary factors.
- Added Redis caching to reduce repeated database reads and improve scalability; used Git branching, pull requests and code reviews.

LowPoceat – Secure Nutrition Web Application

[GitHub](#)

Python, Django, JWT, REST APIs, OTP Verification, JavaScript (AJAX), HTML, CSS

- Implemented JWT-secured REST API endpoints and OTP email verification for authentication; built AJAX meal filtering and a BMI calculator.

TECHNICAL SKILLS

Languages: Core Java, Python, JavaScript, SQL

Java & Backend: Spring Boot, Spring MVC, Spring Framework, Hibernate, JPA, REST APIs, HTTP, Server-Side Development, Maven, Django, Django REST Framework

Frontend: ReactJS, Redux, HTML5, CSS3, JavaScript, AJAX

Databases: MySQL, PostgreSQL, SQL, Redis

Security & Quality: JWT Authentication, OTP Verification, API Rate Limiting, Unit Testing, Debugging, Code Reviews

Tools & Practices: Git, GitHub, IntelliJ IDEA, VS Code, Postman, Agile, OOP, Data Structures and Algorithms

AI: LLM API Integration (Google Gemini)

CERTIFICATIONS

- Machine Learning Engineer & AI Analyst** – Symbiosis Skills and Professional University: 40+ hours of ML training on 5+ real datasets using EDA, feature engineering and model evaluation.
- Introduction to Python (CS105)** – Saylor Academy: 30+ exercises covering Python fundamentals and problem solving.

EDUCATION

Sinhgad Institute of Management, Pune

2024 – 2026

Master of Computer Applications (MCA) | CGPA: 8.14

Zulal Bhilajirao Patil College, Dhule

2021 – 2024

Bachelor of Computer Applications (BCA) | CGPA: 9.12

ACHIEVEMENTS

- 2nd Runner-Up, Code Battle at Sinhgad Institute – recognized for coding and problem-solving performance.