

# Mainul Islam Rahat

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[LinkedIn Profile](#) | [GitHub Profile](#) | [Portfolio Website](#)

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## RaptorTech

Subject: Application for Software Engineer Backend

Dear Hiring Manager,

I am writing to express my interest in the software engineer backend position at RaptorTech. With over two and a half years of hands-on experience in software development, I specialize in Python, Django, and relational databases (PostgreSQL, MySQL). I am eager to bring my technical expertise and passion for backend development to your innovative team.

## Why I'm a Strong Fit

Throughout my career, I've worked in fast-paced, agile environments and collaborated with cross-functional teams to deliver scalable, high-performance solutions. My core strengths include:

- **Robust Backend Development:** Proficient in Python, Django, Django REST Framework, and database design, with a focus on performance, scalability, and clean architecture.
- **Frontend Familiarity:** Currently expanding my skills in Javascript, Typescript, React, Next.js, Tailwind CSS, and ShadCN to evolve as a full-stack developer.
- **Real-World Projects:** Contributed to platforms like CardiCheck, Beebox, PyReactor, Property Source, and Suppliers, Sebagriho—delivering optimized APIs, database schemas, and feature-rich systems.
- **Proactive Collaboration:** Active in code reviews, debugging, and maintaining system quality in team-based development environments.
- **Recognized Performance:** Awarded Employee of the Month for exceptional contributions to team projects and consistent delivery of high-quality code.

## Technical Contributions

Here are some advanced systems I have personally built and integrated:

- **API-Based Dynamic Filtering System**  
Enables querying of any model through API parameters. Users can retrieve model fields and apply dynamic filtering, sorting, and searching — including combined queries — using simple GET or POST requests.
- **Dynamic Model Creation with Runtime Migrations**  
Allows users to create, update, and delete models and fields at runtime. Migrations can be applied on the fly, and data can be inserted or updated via API without server restarts.
- **Global Appointment Booking System**  
Supports appointment bookings across any date and time. Once a slot is booked, it becomes unavailable to others, ensuring real-time accuracy and avoiding double-bookings.
- **Dynamic Permission Management**  
Extends Django's built-in Group and Permission models, allowing owners/admins to assign or revoke user permissions dynamically at runtime—no code changes or restarts required.

In addition to the above, I've designed databases, integrated third-party services like Twilio, Infobip, and VideoSDK, Django Channels for real-time messaging, and written unit tests to ensure early bug detection.

I am confident that my experience, dedication to clean and scalable code, and enthusiasm for backend engineering make me a strong candidate for this role. I would welcome the opportunity to further discuss how I can contribute to RaptorTech.

Thank you for your time and consideration.

Best regards,  
Mainul Islam Rahat