

# Muhammad Hashim

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## EDUCATION

Bachelor of Science in Computer Science

2019 – 2023

Coursework: C++, OOP, JAVA, PYTHON, DATA STRUCTURE, DBMS, OS, C, WEB TECHNOLOGIES, NETWORKS, INFORMATION SECURITY, CGPA: 3.15

## WORK EXPERIENCE

Python Full Stack Developer

2022 - 2024

AZAD CHAIWALA IT INSTITUTE

In my role as a Full Stack Developer at the Azad Chaiwala Institute, I specialize in back-end development using **Python** and its modern frameworks, including **Django**, **Django REST Framework (DRF)**, and **FastAPI**. I am responsible for designing and developing scalable web applications, APIs, and services. My day-to-day tasks include:

- Building robust back-end solutions using Django and DRF to handle complex business logic, ensuring high performance and responsiveness.
- Implementing RESTful APIs using FastAPI, providing efficient, asynchronous services for various client-side applications.
- Leading projects that require full-stack expertise, involving both front-end and back-end development.
- Collaborating with students and fellow developers to solve coding challenges, debugging, and enhancing the overall learning experience.
- Writing clean, maintainable, and well-documented code, with a strong focus on best practices and performance optimization.
- Contributing to open-source Django projects, including my [Django](#) repository, where I actively develop tutorials and features that help the community

WordPress Team Lead and QA Engineer

ALGOSOCKET

2020 - 2021 (Remote)

At Algosocket, a managed WordPress hosting solution, I led the team responsible for WordPress site development and quality assurance. My primary responsibilities included:

- Managing WordPress site development: Overseeing the full development cycle for client websites, ensuring proper configuration, customization, and optimization.
- Quality Assurance (QA) Testing: Implementing manual and automated testing strategies to ensure websites met performance, functionality, and security standards.
- Task Delegation and Team Leadership: Coordinating task assignments between developers, setting priorities, and ensuring all deliverables were met on schedule.
- Bug tracking and troubleshooting: Leading efforts to identify, track, and resolve technical issues and bugs, improving site reliability and functionality.

## SKILLS

- Languages:** PYTHON, JAVA, JAVASCRIPT, TYPESCRIPT, REACT JS
- Frameworks:** DJANGO, DRF, FASTAPI, BOOTSTRAP, TAILWIND CSS, NEXT JS
- Tools:** GIT, GITHUB, DOCKER, BOOTSTRAP STUDIO
- Databases:** MYSQL, POSTGRESQL

## PROJECTS

BOOK STORE APPLICATION ----> (Code Link)

This project is a complete Django-based web application for managing a bookstore. It includes user authentication, book management, and review functionalities. Key features of this project include:

- Custom User Model:** Implemented a custom user model to enable login via email instead of the default username.
- Django Allauth:** Integrated Django Allauth to handle authentication, registration, and account management.
- SMTP Email Setup:** Configured SMTP for email verification, password reset, and other account-related notifications.
- CRUD Operations:** Developed full CRUD functionalities for managing books and reviews, enabling users to create, update, and delete records.
- File Upload:** Implemented file upload functionality for book covers and other media.
- Custom Permissions:** Developed custom permission classes to ensure that only authorized users can see the books
- Search Functionality:** Added a search feature to allow users to search for books based on titles, authors, or keywords.
- Deployment on Heroku with Docker:** Deployed the application on Heroku using Docker for containerization, ensuring scalability and portability

## ARTICLE BLOG

This project is a blogging platform built using Django with a focus on class-based views and streamlined blog management functionalities. Key features of the project include

- Custom User Model:** Implemented a custom user model to manage login and logout functionality using email authentication.
- Comments Functionality:** Implemented a feature to allow users to add comments on specific blog posts.
- Permissions and Mixins:** Integrated custom PermissionMixins to ensure that only authorized users can edit or delete posts, adding an extra layer of security.
- Django Crispy Forms:** Used Crispy Forms to enhance the styling and responsiveness of forms within the application.
- Deployment:** Deployed the application on Heroku, ensuring scalability and ease of access for users.
- Class-Based Generic Views:** Utilized Django's class-based generic views to efficiently implement CRUD operations for blog posts, including:
  - BlogList: Displays a list of all blog posts.
  - BlogDetail: Shows the details of a single blog post.
  - BlogCreate: Allows users to create a new blog post.
  - BlogUpdate: Enables users to update an existing blog post.

- BlogDelete: Facilitates the deletion of blog posts.

HIKMA WEB APP:

The HIKMA Web App is an Islamic platform inspired by apps like Islam360, developed using Django. It provides a digital solution to help users, particularly women, connect with religious scholars (Imams) in a secure and respectful manner. The problem we aimed to solve was that women, who often cannot directly access the Imam at a mosque, needed a way to ask religious questions. Key features of the project include:

- Django-Based User Registration and Account Management: Users can create accounts, securely log in, and manage their profiles using Django’s authentication system.
- Imam Communication Portal: Women can submit questions to Imams through the portal, leveraging Django's powerful routing and form handling features.
- Question Submission via Django Forms: Users can submit religious or personal questions, which are routed to the Imam for review through Django’s form-handling system.
- Admin Panel for Imams (Django Admin): Imams can access a custom-built admin panel to review and respond to questions.
- Secure Messaging: We used Django’s security features to ensure private and encrypted communication between users and Imams.
- Mobile-First Design: The app is fully responsive, ensuring accessibility on all devices.
- Real-time Notifications: Using Django’s signals and other notification features, users are informed in real-time when an Imam responds to their queries.

MARKET STORE → (Code Link)

- This Project is based on **Link List** Data Structure.
- Code contains Struct Node {id, Proname, Quantity and Price} and some user defined functions i.e. beg(), deletepro(), buy(), search() and display() Functions.,

PHP CRUD APPLICATION → (Code Link)

- This is all about PHP CRUD Application which contain Create, Read, Update and Delete Operations.
- We use **PDO** API to connect **MYSQL Database to fetch, edit, delete and update** a record using prepared statement to block **SQL Injections**.

Chat Bot → (Code Link)

- Developed in Python using **List and Dictionary** Data Structure.
- This project is mainly responsible to chat with users like human natural language.

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CERTIFICATES

AASS Python Programming Language	(10 / 2022 – 02 / 2023)
AASS Django Python Framework	(10 / 2022 – 2023)

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LANGUAGES

Language

English

Full Professional Proficiency

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INTERESTS

- Open-source contributions and collaborative coding projects
  - *Exploring new web frameworks (e.g., Flask)*
  - Learning cloud technologies like AWS and Docker for deployment.
  - Improving Django skills and contributing to the Django community
  - Experimenting with AI and machine learning applications in Python
  - Staying up-to-date with JavaScript libraries and trends
  - Exploring DevOps tools and CI/CD pipelines for automation
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