

# Bhawani Singh

<https://github.com/bhawani0x/>

Email: bs01rathore@gmail.com

Mobile: +91 7375848100

## SUMMARY

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Experienced backend developer with a demonstrated track record of 2 years in conceiving and constructing robust server-side solutions. I specialize in designing efficient APIs, creating optimized data structures, and implementing algorithms that contribute to seamless user experiences. My collaborative approach thrives in agile environments, showcasing a keen problem-solving aptitude, coupled with a steadfast dedication to code quality and maintainability.

## EXPERIENCE

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- **Cloudastra Technologies** Sector-63, Noida  
*Jr. Software Engineer* *January 2022 - Present*
  - **Developing web applications:** Python, Django, and Django Rest Framework.
  - **Experience with Database:** PostgreSQL and SQL databases.
  - **Work on a API:** Creating a Rest API for web application.
  - **Django ORM Expertise:** Write complex Django ORM queries for intricate database operations.
  - **Version Control:** Utilize version control systems, such as Git, to manage codebase changes collaboratively.
  - **Code Reviews:** Participate in and conduct code reviews to ensure code quality and adherence to best practices.
  - **Testing:** Contribute to testing processes, including unit testing and integration testing, to maintain code reliability.
  - **Debugging and Troubleshooting:** Identify and resolve bugs, issues, and performance bottlenecks through effective debugging and troubleshooting.
  - **Agile Methodology:** Work within an Agile development environment, participating in sprint planning and retrospectives.
  - **Alerting:** write lambda code for alerting
  - **Hosting website:** Deploy website using ec2 and s3 bucket

## PROJECTS

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- **Nigmabot:** NigmaBot is an advanced virtual assistant designed to offer a seamless and intelligent interaction experience. Users can engage in natural language conversations, create images on the fly, replace objects within images, extract information from PDFs and web pages, and utilize a sophisticated question-answering system.
  - **Technology Stack:** Django, AWS, Django Rest Framework, Firebase.
  - **Roles and Responsibilities:** As a Junior Software Engineer, played a pivotal role in various aspects of the project:
    - \* **System Architecture:** Contributed to the design and architecture, structuring Django apps to encapsulate distinct functionalities.
    - \* **Backend Development:** Implemented backend logic for key features such as poll creation, voting, commenting, and user interactions using Django and Django Rest Framework.
    - \* **Database Design:** Designed the PostgreSQL database schema for optimal storage and retrieval of data associated with polls, likes, votes, and user information.
    - \* **API Integration:** Implemented Django Rest Framework for seamless API integration, facilitating efficient communication between the frontend and backend components.
    - \* **AWS Integration:** Integrated AWS services to enhance the scalability, reliability, and security of the application.
    - \* **Collaboration:** Worked closely with team members to ensure smooth integration of different app components and functionalities.
    - \* **Testing:** Conducted thorough testing and debugging to identify and resolve issues, ensuring the reliability and stability of the application.
    - \* **Achievements:** Successfully delivered a comprehensive virtual assistant with a wide range of capabilities, image processing, and data extraction. NigmaBot stands as a testament to the integration of AI technologies, providing users with a powerful tool for diverse tasks

- **Poll Work:** It is a social network platform designed to facilitate the creation and participation in polls. Users can share polls, gather votes, engage in comments, and express approval through likes. The platform extends beyond simple polling, incorporating social networking features such as the ability to follow other users and gain followers.
  - **Technology Stack:** Django, PostgreSQL, AWS, Django Rest Framework.
  - **Roles and Responsibilities:** System Architecture, Backend Development, Database Design, API Integration, Testing
- **Discovery:** It is a comprehensive healthcare management application designed to empower users in planning their treatment, understanding their health policy, and receiving assistance in the admission process across a diverse range of hospitals. The app is structured around distinct modules such as HospitalInfo, TreatmentInfo, PolicyInfo, and PatientInfo, ensuring a holistic approach to healthcare management.
  - **Technology Stack:** Django, PostgreSQL, AWS, Django Rest Framework.
  - **Roles and Responsibilities:** System Architecture, Backend Development, Database Design, API Integration, Testing
- **Bazaar:** It is a dynamic e-commerce platform tailored to cater to the needs of both retailers and wholesalers. The platform facilitates the sale of products and fosters a seamless interaction between suppliers, retailers, and agents. The application is organized into modular components such as Products, wholesalers, Retailers, and Agents, providing a comprehensive solution for the e-commerce ecosystem.
  - **Technology Stack:** Django, PostgreSQL, AWS, Django Rest Framework.
  - **Roles and Responsibilities:** System Architecture, Backend Development, Database Design, API Integration, Testing
- **Wellness:** It is a versatile health services application providing users with the convenience of booking both onsite and offsite health camps. The app offers two main functionalities: Onsite health camp booking, which caters to users within their office buildings, and Offsite health camp booking, which extends services across various cities. Additionally, the app facilitates dependents of users in booking a range of health services. The application is structured around modular components including ServicesApp, OnsiteApp, and OffsiteApp, ensuring a comprehensive solution for health service accessibility.
- **Raffle:** It is an online platform designed for digital raffle events, providing users with an interactive experience to participate in events and potentially win gifts or vouchers. Users can fill in their details, and the admin has the authority to conclude the event, selecting a participant to receive the prize. The application is organized into modular components, including UserManagement and Gifts, to efficiently manage user information and the raffle prize pool.

## SKILLS AND PROGRAMMING SKILLS

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### Programming LanguagesPython

<b>Web Framework</b>	Django, Django Rest Framework
<b>Database</b>	PostgreSQL, MySQL
<b>Authentication</b>	JWT (JSON Web Tokens), OAuth 2.0 (basic understanding)
<b>Version Control</b>	Git, GitHub, Bitbucket, GitLab
<b>Cloud Services</b>	AWS (EC2, S3, RDS, Lambda)
<b>Operating Systems</b>	Windows, Linux, Ubuntu
<b>Web Technology</b>	HTML, CSS, JavaScript
<b>Tools</b>	AWS Services, Terraform, Jenkins, Jira, Docker

## EDUCATION

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- **Jain Online**  
*Pursuing Master of Computer Application* 2022 - 2024
- **St. Andrews Institute of Technology and Management** New Delhi, India  
*Bachelor of Computer Applications* 2019 - 2022
- **Rana International School** Nagaur, Rajasthan  
*12th* 2017 - 2018
- **Rana International School** Nagaur, Rajasthan  
*10th* 2015 - 2016