

# AJAY MARRI

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## Profile Summary

Python developer skilled in building robust backend systems using Django and SQL. Designed and implemented a full-featured blog platform with advanced post and image management through the Django admin interface. Executed comprehensive test strategies—including unit, integration, regression, and database testing—leading to measurable defect reduction, tracked using Azure DevOps. Automated infrastructure provisioning with Terraform and built secure AWS environments using EC2, S3, IAM, and VPC to support scalable application development.

## Technical Skills and Tools

- **Languages & Web Technologies:** Python, Core Java, SQL, OOPs, HTML, CSS, Bootstrap, Problem Solving, Debugging
- **Technologies & Tools:** AWS (EC2, S3, IAM, VPC, Route 53), Terraform, Django, Git, GitHub, Docker (basic)
- **Testing:** Test Case Design, Smoke Testing, Regression Testing, White Box Testing, Database Testing, Sanity Testing, Integration Testing, Agile methodology

## Education

- B. Tech  
Bharath University, Chennai | CSE | 9.1 CGPA | June 2019 – June 2023

## Experience

### HealthOnUs Technologies, Hyderabad

Associate Software Engineer | Dec 2023 – Jan 2025

### Project 1: HonoNow App (Clinical Management System)

- Contributed to the design and development of a clinical management system to streamline hospital workflows.
- Developed responsive and user-friendly web interfaces using HTML, CSS, and JavaScript, improving usability for hospital staff and reducing time spent on form entries by 25%.
- Developed and enhanced modules for patient registration, appointment booking, admissions, and discharge management using Django and SQL-based backends.
- Collaborated with QA to conduct unit, integration, and regression testing; fixed issues related to workflow issues and data integrity.
- Contributed actively to Agile sprint ceremonies—including sprint planning and daily stand-ups—helping prioritize critical tasks and ensure consistent delivery.

### Project 2: Homecare Ordering System

- Developed and tested features for a homecare service platform under HealthOnUs Technologies, streamlining home-based medical equipment and service orders.
- Wrote and optimized complex SQL queries using SQL Server Management Studio for backend operations and data validation.
- Validated chatbot interactions to ensure accurate, natural responses and a seamless user experience.
- Performed API testing and backend verification using Postman and Swagger.
- Conducted post-release training sessions and walkthroughs, resulting in a 30% reduction in support tickets by improving stakeholder understanding of the system.

## Academic Project

### Blog/News Web Application (Django)

**Tech Stack:** Python, Django, HTML, CSS, Bootstrap, SQLite

**GitHub:** <https://github.com/Ajay-Marri/projects.git>

- Developed a fully functional, responsive blog-style web application using Django framework to manage and publish news articles efficiently.
- **URL Routing & Views:** Designed clean, RESTful URL structures using both function-based and class-based views for scalable navigation and routing.
- **Templates & Static Files:** Used Django templating system to create reusable and responsive layouts with static file integration for styling and assets.
- **Models & Database Integration:** Created models for posts, authors, tags, and comments; implemented one-to-many and many-to-many relationships using Django ORM.
- **Admin Panel Customization:** Configured Django admin to manage posts, tags, and file uploads with search and filtering capabilities.
- **Forms & Validation:** Built secure forms using Django's ModelForm and form classes with custom validation and Cross-Site Request Forgery (CSRF) protection.
- **File Uploads:** Implemented media upload functionality for images in posts with secure storage and display.
- **Class-Based Views:** Leveraged Django's CBVs like ListView, DetailView, CreateView for modular, maintainable code.
- **Session Management:** Used Django session framework to implement “read later” functionality without requiring user login.

## Coding Profiles

- **LeetCode:** [https://leetcode.com/u/Ajay\\_Marri/](https://leetcode.com/u/Ajay_Marri/)
- **TUF:** <https://takeuforward.org/profile/ajaymarri1602@gmail.com>
- **GeeksforGeeks:** <https://www.geeksforgeeks.org/user/ajaymarpyuo/>

## Strengths

- Quick adaptability to cloud, dev, and testing stacks
- Proactive collaborator in Agile sprints
- Committed to clean architecture and maintainable code
- Strong debugging and test automation mindset