

# Ram Chandra Bhavirisetty

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## Professional Summary

Highly skilled Python developer with expertise in back-end development and experienced in building scalable and efficient Restful APIs. Strong knowledge of JavaScript, HTML, and CSS for front-end development, with hands-on experience in Vue.js. Experienced in containerization with Docker and deployment automation using Jenkins and Ansible. Familiarity with different python libraries and a solid understanding of data structures and algorithms.

## Skills

**Languages:** Python, C, JavaScript, HTML, CSS, SQL, PostgreSQL, PSQL, MongoDB, JSON

**Frameworks:** Django REST Framework, PyUnit, PyTest, Flask, Vuejs, Reactjs, Tailwind CSS

**Libraries:** Numpy, Pandas, SciPy, psycopg2, pillow, selenium, bs4, matplotlib, scikit-learn, SQLAlchemy

**Web/Application servers:** Nginx, Gunicorn

**Dev tools:** AWS, Ansible, Docker, Git, Jenkins, Jira, Kubernetes, Postman, VSCode

## Professional Experience

Prospect IT solutions, Pennsylvania

Feb 2023 – Till Date

Role: Python Developer

Responsibilities:

- Designed and developed frontend and backend modules using Vuejs and Django Rest framework, following MVT architecture resulted in improved performance and increased user satisfaction.
- Worked on RESTful endpoints to cache application-specific data in in-memory data clusters like **Redis** and exposed them with RESTful endpoints, improving data retrieval speed and system efficiency, and tested them using Postman.
- Optimized database queries and improved overall application performance, reducing response times by 25% and enhancing user experience.
- Designed and implemented a robust authentication and authorization system using **JWT**, ensuring secure access to sensitive resources.
- Implemented **shell** scripting, for automating various system tasks and enhancing system efficiency.
- Utilized **Celery** as a task queue and Redis as messaging brokers to execute asynchronous tasks, ensuring efficient task processing and system performance
- Used Agile processes and Jira issue tracker to manage sprint cycles, ensuring timely delivery.
- Utilized **Docker** and Kubernetes to create and orchestrate containers
- Designed a scalable and fault-tolerant infrastructure using AWS Elastic Load Balancer, EC2 instances, and RDS database.
- Deployed and managed the application on Amazon EC2 instance using **Gunicorn** as the WSGI server and **NGINX** as the reverse proxy.

**Tools and Technologies:** Python, HTML, CSS, JavaScript, Django Rest Framework, Vuejs, PostgreSQL, Celery, Redis, Docker, Kubernetes, AWS, GitHub, Agile, Jira, Postman.

**Tata Consultancy Services, Chennai, India**

**Jan 2020 – Aug 2021**

**Role: Python Developer**

**Responsibilities:**

- Developed RESTful APIs using Flask, and implemented **MongoDB** as the primary NoSQL database for the project, enabling efficient storage and retrieval of data.
- Designed a prioritized dashboard using CSS and utilized frontend frameworks such as **Reactjs**.
- Implemented Flask blueprints to modularize and organize the application's codebase for better maintainability and scalability.
- Utilized **Git** version control for code management, branching, and merging, enabling better collaboration with the development team.
- Used **alembic** python library to manage database schema migrations, ensuring the consistency of the database across different environments.
- Implemented continuous integration and delivery (CI/CD) pipelines using **Ansible** to automate the build, test, and deployment.
- Automated the Python code deployment process on AWS services using various tools such as AWS CodeDeploy, AWS CodePipeline
- Developed a custom logging mechanism using Python's logging module to track and log application events and errors for debugging purposes.
- Utilized AWS services such as EC2, **S3**, and RDS to deploy and host the application in a cloud environment.
- Maintained the project's technical documentation and user guides using documentation tools like **Sphinx**.
- Conducted code reviews and provided feedback to other developers for code quality and standards compliance.

**Tools and Technologies:** Python, Flask, Reactjs, MongoDB, HTML5, CSS3, TDD, Waterfall, AWS services, Sphinx, Git, PyTest, Ansible

## Education

**Master's in Data Science**

Aug 2021 - Feb 2023

University at Buffalo, SUNY, Buffalo, NY

**Bachelor's in Computer Science**

July 2016 - May 2020

Hindustan University, Chennai, India

## Certifications

[AWS cloud practitioner](#)

## Projects

[TutorFlow](#) | Django rest framework | Vuejs | AWS

This application offers a range of features including the ability to post questions and answers, add follow-up answers, mark questions as favorites, like or dislike answers, and control the privacy of questions (public or private).

**MusicPlayer** | Python | Tkinter

The music player application includes all the essential features found in a typical music player. It allows users to play, pause, and stop music, navigate to the next or previous tracks, add or delete songs, and control the playback time and volume using sliders.