

Ram Chandra Bhavirisetty

Software Developer

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OBJECTIVE

With 4+ years of experience in software development, I specialize in building scalable applications, optimizing system performance, and automating workflows using Python, Flask, Docker, and AWS. While working at Goldman Sachs, I helped improve migration efficiency by 30%, and at American Family Insurance, I enhanced quote generation speed by 45%. At Cloudserv.ai and TCS, I automated reporting workflows, cutting manual effort by 55%, and improved system performance by 40% through microservices and containerization. I enjoy collaborating in cross-functional teams to deliver impactful results.

- Portfolio - <https://portfolio-backend-77v6.onrender.com>
- Leetcode profile - <https://leetcode.com/u/Coder1918/>
- Github profile - <https://github.com/ram-1918>

WORK EXPERIENCE

Goldman Sachs | Software Developer/Python | July 2024 - Present

Project: SecDB Tool Migration

- Led the migration of 200,000+ lines of Python 2.7 code to Python 3.10, automating refactoring and reducing migration time by 30%, with no service disruptions during the transition.
- Developed a custom testing framework to ensure 99.9% functional parity between legacy and migrated systems, preventing production issues and ensuring reliable deployment.
- Optimized system performance by implementing design patterns and enhancing Python code, improving query response times by 40% and system throughput by 25%.
- Engineered and automated a CI/CD pipeline using Jenkins and Docker, reducing release cycles from weeks to 2-3 days, and integrated security scanning to detect and fix 99% of vulnerabilities early.

Cloudserv.ai | Full Stack Developer | March 2023 - July 2024

Project: Real-time Reporting System

- Developed a real-time analytics platform using React.js, D3.js, and Django REST Framework, enabling high-performance data visualizations for 100+ concurrent users with zero degradation in response times.
- Engineered Python-based microservices to handle over 2 million daily JSON messages via Kafka, achieving a 99.99% message delivery rate and ensuring reliable, distributed messaging.
- Optimized data retrieval using PostgreSQL stored procedures and PyMongo, reducing data retrieval times by 30% and enhancing overall application performance.
- Automated infrastructure provisioning and configuration with Ansible, reducing manual setup time by 70% and ensuring consistent environments across all stages of development.
- Designed and deployed a comprehensive CI/CD pipeline using Jenkins, streamlining automated testing and deployment, reducing release cycles from days to hours.
- Integrated real-time data processing with FastAPI and WebSockets, delivering immediate updates to the frontend and boosting user engagement during live data assessments.

Eidiko System Integrators | Software Developer | July 2022 - March 2023

Project: Insurance Quote Generation System

- Design and development of a high-performance insurance quote generation system using Django REST Framework and React.js, optimizing processing speed by 30% and improving user engagement by 15%.

- Designed an optimized PostgreSQL schema and developed efficient RESTful APIs, reducing data retrieval times by 40% and improving API response times by 25% during peak traffic.
- Implemented Terraform for infrastructure automation, reducing setup time by 50% and ensuring consistent, cost-efficient deployment of AWS resources (EC2, S3, Lambda).
- Integrated Celery and RabbitMQ for asynchronous task processing, improving task efficiency by 30%, and automated deployment with Jenkins, reducing deployment time by 70%.

Tata Consultancy Services | Software Developer | May 2020 - August 2021

Project: Customer Support Monitoring Dashboard

- Developed scalable backend services using Flask and FastAPI, adhering to SOLID principles, and architected MongoDB and PostgreSQL schemas that improved query performance by 35% through efficient indexing and partitioning.
- Led the transition from a monolithic architecture to microservices, optimizing Python-based APIs and Docker containerization, reducing response times by 20% during peak traffic periods and improving system scalability.
- Automated reporting workflows and processed over 5TB of data monthly using Python libraries (Pandas, NumPy), cutting manual intervention by 40%.
- Designed and implemented CI/CD pipelines using Jenkins and GitLab, automating deployment and testing with a 90% reduction in manual intervention, and optimized cloud infrastructure (AWS) to reduce operational costs by 25%.

TECHNICAL SKILLS

Programming Languages: Python (3.7+), Golang, C#

Frontend Technologies: JavaScript, React.js, Vue.js, Tailwind CSS

Backend Technologies: Django REST Framework, Flask, FastAPI

Web Technologies: Docker, Kubernetes, Terraform, Jenkins, Postman, Kafka, CI/CD

Databases: PostgreSQL, MongoDB, Redis

Libraries: Asyncio, Pandas, NumPy, Matplotlib, Seaborn

Cloud Technologies: AWS: EC2, Lambda, S3, CloudWatch, RDS, DynamoDB, VPC, SQS, API Gateway

Others: System Design, Data Structures and Algorithms, Microservices, Cloud Architecture, Agile, Object-Oriented Design, Code Reviews, Source Control Management (Git)

EDUCATION

University at Buffalo, The State University of New York | Master of Science | Data Science | February 2023

Hindustan University | Computer Science | Bachelors of Technology | April 2020

CERTIFICATIONS

AWS cloud practitioner - [See credential](#)