

# Ram Chandra Bhavirisetty

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## PROFESSIONAL SUMMARY

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Full Stack Software Developer with expertise in distributed systems and modern tech stack (Python, Go, React.js). Proven experience in architecting high-performance solutions at Goldman Sachs, focusing on legacy system modernization and scalable API development. Specialized in implementing industry-standard design patterns leading to 40%+ performance improvements. Strong foundation in data science (MS) combined with hands-on experience in cache optimization, microservices architecture, and automated testing frameworks

## WORK EXPERIENCE

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

- Led critical modernization of SecDB platform by architecting and executing Python 2.7 to 3.10 migration strategy, ensuring seamless functionality across 200K+ lines of legacy code
- Implemented advanced code optimization techniques and design patterns to refactor legacy systems, resulting in 40% improvement in query response times
- Developed automated testing framework to validate migration integrity, achieving 99.9% parity between old and new systems
- Engineered modular components to replace deprecated libraries while maintaining backward compatibility with existing financial models
- Implemented Circuit Breaker Pattern to automatically fallback to stable versions and handled errors gracefully during migration and controlled rollout of new Python 3.10 features following Feature Toggle Pattern
- Collaborated with cross-functional teams to identify and resolve complex dependencies, ensuring zero disruption to trading operations
- Implemented secure access control using AWS IAM roles to ensure compliance during system migrations.

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

- Led the migration of a critical internal application from Python to Go using the Gin framework, achieving a 40% performance boost and improved concurrency and memory management
- Optimized API performance by leveraging Go's concurrency model and Gin's lightweight design to handle a 2x increase in concurrent requests with minimal resource usage
- Leveraged Gin's advanced routing, middleware, and data handling features to ensure efficient and secure API operations
- Designed and built RESTful APIs using Django Rest Framework to support real-time data processing, handling peak loads of 1000+ requests per second
- Created responsive front-end applications using React and d3.js, integrating with backend services through GraphQL and REST APIs
- Established CI/CD pipelines incorporating automated testing, reducing deployment time by 60%
- Utilized API Gateway Pattern for centralized request processing and rate limiting
- Collaborated closely with cross-functional teams and Documented changes throughout the migration process

### **Eidiko System integrators | Software Developer** | July 2022 - March 2023

- Designed and developed high-performance RESTful APIs using Django REST Framework and Python, forming a robust backend foundation, React js and Redux for building responsive design
- Automated 30% of manual testing tasks using Python scripts, improving development efficiency
- Implemented Amazon ElastiCache(Redis) for data caching using the Cache-Aside Pattern, effectively managing cache invalidation and handling cache misses. This resulted in a 50% reduction in database query times and a 20% improvement in overall application performance
- Set up AWS CloudTrail to monitor API usage and enforce security standards, ensuring adherence to client policies.

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

- Built scalable document processing pipeline using Python and Vue.js, supporting concurrent processing of 10K+ documents
- Utilized Amazon SQS and SNS for reliable message queuing and notification services in distributed systems.
- Designed caching strategy using LRU algorithm, reducing average document retrieval time by 65%
- Developed RESTful APIs using Flask for document CRUD operations, incorporating JWT authentication and role-based access control

## **TECHNICAL SKILLS**

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**Programming Languages:** Python (3.7+), Golang, Java

**Frontend Technologies:** JavaScript, HTML, CSS, React.js, Vue.js, D3.js, Tailwind CSS, Motion.js

**Backend Technologies:** Django, Flask, and Gin Rest Frameworks

**Web Technologies:** Web Services, HTTP, Docker, Kubernetes, Terraform, Ansible, Jenkins, Postman, Kafka, CI/CD

**Testing Frameworks and Databases:** PyUnit, PyTest, SQLite3, PostgreSQL, MongoDB, Elastic Search, Redis

**Libraries:** Asyncio, boto3, NumPy, Pandas, scikit-learn, Matplotlib, Seaborn, psycpg2, PySpark, PyTorch, Selenium

**Cloud Technologies:** AWS services

**Others:** Microservices, Cloud Architecture, Agile, object-oriented design, code reviews, source control management

## **EDUCATION**

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**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**

## **PROJECTS**

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**Expense Tracker:** Django Rest Framework, React.js, PostgreSQL, Celery, Redis, AWS

- Built a secure expense management system using Django Rest Framework, React.js, Celery, Redis, and AWS.
- Features include company email-based authentication, expense submission with admin approval/rejection workflow, and a limit of three uploads per expense. Integrated user-specific and admin-wide statistics for detailed insights.
- Leveraged Redis and Celery for performance optimization and deployed on AWS for scalability.

**Tutorflow.info:** Django Rest Framework, React.js, AWS

- Created a feature-rich website that allows users to post questions, answers, add follow-up responses, bookmark favorite questions, express preferences through likes or dislikes, and control question privacy settings (public or private).

## **CERTIFICATIONS**

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AWS cloud practitioner - [See credential](#)

AWS solutions Architect (In Progress) - Expected January 2025