Ram Chandra Bhavirisetty

Software Engineer

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Leetcode: https://leetcode.com/u/Coder1918/
Github: https://github.com/ram-1918

OBJECTIVE

With 4+ years in software development, I'm passionate about building fast, scalable apps and automating workflows using Python, Flask, Docker, and AWS. At Goldman Sachs, I played a key role in migrating the SecDB tool from Python 2.7 to 3.10. I also love designing personal web applications and solving coding challenges on LeetCode, constantly pushing myself to learn and grow.

WORK EXPERIENCE

Goldman Sachs, Salt Lake City, Utah | Software Developer | July 2024 - Present

Project: SecDB Tool Migration

- Led the migration of a legacy codebase from Python 2.7 to Python 3.10, ensuring compatibility, performance, and maintainability while adhering to project timelines.
- Utilized PDB and Python's logging module for effective debugging, enabling the identification and resolution of runtime errors and execution flow issues.
- Designed and implemented Observer and Adapter design patterns to isolate subsystems, promote modularity, and simplify debugging and integration processes.
- Leveraged profiling tools to identify and resolve performance bottlenecks, optimizing resource usage (CPU, memory) and improving system efficiency.
- Conducted rigorous testing and analysis of design patterns for correctness and performance before integration, ensuring seamless functionality in the migrated codebase.
- Collaborated with cross-functional teams to prioritize tasks, address technical challenges, and deliver a scalable and maintainable Python 3.10 codebase.
- Delivered the migration project on time, achieving a 100% success rate in compatibility and performance improvements for the upgraded codebase.

Kellogg Company, Chicago, Illinois | 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(RDBMS) stored procedures and PyMongo, reducing data retrieval times by 30% and enhancing overall application performance.
- 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, Charlotte, North Carolina | 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).

Tata Consultancy Services, Hyderabad, India | 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.
- 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 AND INTERESTS

Programming Languages: Python (3.7+), C#, C++, Golang, SQL
Frontend Technologies: JavaScript, React.js, Vue.js, Tailwind CSS, SPA
Backend Technologies: Django REST Framework, Flask, FastAPI, REST APIs
Web Technologies: Docker, Kubernetes, Terraform, Jenkins, Postman, Kafka, CI/CD
Databases: RDBMS, NoSQL, PostgreSQL, MongoDB, Redis
Libraries: Asyncio, Pandas, Numpy, Matplotlib, Seaborn
Cloud Technologies: AWS: EC2, Lambda, S3, CloudWatch, RDS, DynamoDB, VPC, SQS, API Gateway
Operating Systems: Linux, Ubuntu, Mac, Windows
Code Editors: VSCode, PyCharm
Distributed systems: Scalability, caching, sharding, consistency, and availability
Others: Concurrency, Networking protocols(TCP, UDP, HTTP), Data Structures and Algorithms, Microservices, Cloud/Network Architecture, Agile, Object-oriented analysis and design, Code Reviews

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