DEVI ESWAR KUMAR DAMERLA

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EXPERIENCE

Software Engineer   Nov 2024 – Present
AI OWL   *Columbus, OH*
- Architected and scaled distributed platform serving multiple facilities with microservices, relational and graph databases, reducing system latency by 60% and cutting operational analysis time by 90% through query optimization and automation.
- Led technical design reviews across 3 engineering teams, establishing architecture standards and best practices that reduced post-deployment issues by 35% while accelerating feature delivery.
- Mentored 4 engineers on distributed systems design, database optimization, and cloud architecture, resulting in 50% faster code review cycles and improved system reliability through knowledge sharing sessions.
- Built event-driven architecture processing 100K+ messages daily with auto-scaling services, lowering infrastructure costs by 40% and achieving 99.9% processing success rate.
- Accelerated database queries from 3+ minutes to seconds through strategic indexing and connection pooling while supporting hundreds of concurrent users.
- Enabled real-time event propagation across microservices for instant updates to concurrent clients while maintaining 99.9% availability.
- Deployed infrastructure as code and CI/CD pipelines for automated testing with zero-downtime deployments across dev/prod environments.

Software Engineer   Aug 2021 – Jul 2023
Airbus Group   *Bengaluru, India*
- Scaled microservices platform serving 200+ engineers with 10K+ daily requests, achieving 90% API latency reduction through distributed caching and database optimization.
- Conducted code reviews for 5-member development team, establishing coding standards and best practices that improved code quality by 40% and reduced bug reports by 25%.
- Mentored 3 junior developers on microservices architecture, API design, and database optimization techniques, enabling them to independently deliver features and earn recognition for improved performance.
- Improved query performance by analyzing execution plans and implementing strategic indexing, accelerating execution from 3+ minutes to 60 seconds for queries handling millions of rows.
- Designed distributed caching layer improving performance by 75% and supporting 200+ concurrent users with 95% cache hit rate.
- Developed real-time streaming service cutting annual software costs by $120K (60% reduction) while improving reliability.
- Executed zero-downtime database migration of 50M+ records while maintaining consistency through automated testing.
- Established CI/CD pipelines with automated testing and code quality gates (85%+ coverage), reducing deployment time by 70%.

EDUCATION

Master of Engineering in Computer Science   Aug 2023 – Apr 2025
University of Cincinnati, College of Engineering and Applied Science   *Cincinnati, OH*
Bachelor of Technology in Computer Science and Engineering   2017 – 2021
Sagi Ramakrishnam Raju Engineering College   *Andhra Pradesh, India*

PROJECTS

Financial Document Intelligence System | *Python, PostgreSQL, Docker*   Oct 2024 – Nov 2024
- **Hackathon Finalist** — Built scalable system processing 100K+ pages with hybrid retrieval, reducing analysis time by 90% (200+ hours to 2 hours).
- Designed asynchronous backend with optimized indexing and connection pooling for complex queries across millions of rows.
- Implemented concurrent ingestion pipeline achieving 5x throughput improvement through parallel processing.

TECHNICAL SKILLS

Languages: Python, Java, C#, JavaScript, TypeScript, SQL, Go
Frameworks: Angular, ReactJS, .NET, Node.js, FastAPI, Flask, Django, Spring Boot, REST APIs, GraphQL, gRPC
Databases: PostgreSQL, MySQL, MongoDB, Redis, Neo4j, DynamoDB
Cloud: AWS, GCP, Microsoft Azure
DevOps: Docker, Kubernetes, Terraform, CI/CD
Tools: Jira, Git, Postman, SonarQube

CERTIFICATIONS

AWS Certified Solutions Architect – Associate
Deep Learning Specialization — DeepLearning.AI