AakarshitRaj

SystemEngineer|MERNStackDeveloper|FullStackDeveloper

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PROFILESUMMARY

Proactive Full Stack Developer with solid programming skills in C, C++, and Python, experienced in building scalable, fault-tolerant applications. Applies strong analytical and troubleshooting skills to optimize systems, demonstrating quick learning and self-starter capabilities within Unix/Linux environments and Agile teams.

WORKEXPERIENCE

TataConsultancyServices(TCS)|SystemEngineer June2024-Present

FullStackDeveloper–MERNStack

■Architected and deployed enterprise-grade web applications, leveraging programming skills in Python for microservices and C/C++ concepts for efficient system design.

■Designed and optimized RESTful APIs with robust authentication (JWT, RBAC), ensuring secure and scalable integrations with an understanding of networking principles.

■Developed responsive front-end modules in React.js with Redux, TailwindCSS, and Axios, applying analytical skills for optimal user experience.

■Mobile Development: Prototyped internal tools in ReactNative for cross-platform deployment, demonstrating versatility.

■Contributed to lightweight microservices using Python and FastAPI for rapid API experimentation and deployments, demonstrating a self-starter approach.

■Deployed and managed services on AWS EC2 (Unix/Linux environments), S3, RDS, and IAM, ensuring secure and reliable infrastructure and demonstrating analytical troubleshooting.

■Utilized Amazon API Gateway for comprehensive API lifecycle management, ensuring efficient network communication and service orchestration.

■Automated CI/CD pipelines with GitHub Actions & GitLab, reducing release cycles by 30% through robust analytical process optimization.

■Conducted thorough API testing and debugging using Postman and Chrome DevTools, applying strong troubleshooting skills to identify and resolve issues.

■Collaborated effectively in Agile teams, actively participating in sprint planning, conducting comprehensive code reviews, and driving cross-functional feature delivery with strong interpersonal and communication skills.

■Implemented scalable, fault-tolerant microservices deployed on AWS, utilizing strong analytical skills to achieve 99.9% system uptime in production environments.

■Managed advanced data partitioning strategies like MongoDB Sharding to efficiently distribute storage and increase query performance for high-load applications, reflecting strong analytical skills.

TECHNICALSKILLS

Languages: C, C++, Python, JavaScript (ES6+), Java, SQL

OperatingSystems: Unix/Linux, Windows

Networking: TCP/IP, OSI Layer (Basic Knowledge)

Frontend: React.js, Redux, TailwindCSS, ReactNative

Backend: Node.js, Express.js, REST APIs, FastAPI (Python)

Databases: MySQL, MongoDB Atlas, SQL

Cloud&DevOps;: AWS (EC2, S3, RDS, IAM, API Gateway), Docker, GitHub Actions, GitLab CI/CD

Testing&Debugging;: Postman, Chrome DevTools, React Developer Tools

VersionControl: Git, GitHub, GitLab

Practices: Clean Code, Agile/Scrum, Component-Based Architecture, Troubleshooting, Analytical Problem-Solving

EDUCATION

KalingaInstituteofIndustrialTechnology Bhubaneswar,Odisha

BachelorofTechnologyinComputerScienceEngineering(CSE)CGPA-8.59 2020-2024

PROJECTS

1.RentAVehiclePlatform(MERNStack)

■Developed a scalable vehicle rental system with a React.js frontend and Node.js/Express backend, applying solid programming and system design principles.

■Migrated data services from MongoDB to MySQL using raw queries, demonstrating strong analytical and troubleshooting skills to optimize database performance.

■Integrated robust JWT authentication and deployed the system on AWS EC2 (Unix/Linux environment) with S3 storage, showcasing an understanding of secure system architecture and networking.

2.AI-PoweredResumeOptimizer(Python,FastAPI,OpenAIAPI)

■Built an NLP-based system using Python, FastAPI, and OpenAI APIs to analyze resumes against job descriptions, improving ATS alignment by 40% through advanced analytical processing and demonstrating independent learning.

ACHIEVEMENTSANDCERTIFICATIONS

■Solved over 300+ complex Data Structure and Algorithms (DSA) problems across leading coding platforms (Leetcode and GFG), demonstrating strong analytical and problem-solving abilities foundational to C, C++, and Python programming.

■Applied efficient algorithms and data structures (e.g., linked lists, trees, hashmaps) in development tasks to optimize performance, improve system efficiency, and reduce time complexity by 30% across features like search, booking, and data retrieval in projects, reflecting strong analytical and C/C++/Python-level problem-solving skills.

■Awarded Appreciation Certificate as Group Representative (GR) during TCS Initial Learning Program, demonstrating leadership, interpersonal, and communication skills.

■Received Xcelerate Warrior Recognition by Tata Consultancy Services, highlighting proactive and self-starter qualities.

■Honored with an On the Spot (Team) Award by Tata Consultancy Services, recognizing effective teamwork and quick problem-solving.

■Received the Best Team Award by Tata Consultancy Services, showcasing strong collaborative and communication skills.

■Completed "Building RESTful APIs with Node.js and Express" certification by LinkedIn, reinforcing practical understanding of networking and API design.