Alpha pr

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Professional Summary

A highly motivated and results-oriented CSE graduate (Reva University, expected June 2026, 9.0 GPA) with proven experience in Java and React development, and expertise in optimizing web applications using AWS. My internship at JSPiders demonstrated leadership in designing and implementing a Python-based CMS, resulting in a 15% increase in website speed, a 10% traffic boost, and a 20% increase in marketing team efficiency. I possess exceptional communication skills and a passion for leveraging cutting-edge technologies to solve complex problems and drive significant business impact for organizations like Amazon and Meta. My adaptable skillset allows me to quickly learn and contribute effectively across diverse tech stacks.

Technical Skills

Programming Languages & Frameworks: Java, React

Cloud & Infrastructure: AWS

Soft Skills & Leadership: Communication

Professional Experience

Intern at **Jspiders** ()

- {'achievement': "**Situation:** JSPiders' legacy website, critical for brand image and lead generation, suffered from significant performance bottlenecks and lacked a robust CMS, hindering marketing efforts and impacting user engagement. The existing monolithic architecture presented scalability challenges and high maintenance overhead. Page load times exceeded 5 seconds, resulting in high bounce rates and low user engagement.\n\n**Task:** As a Python intern, I spearheaded the project to optimize website performance, enhance user experience, and develop a scalable, maintainable CMS. This involved in-depth technical analysis, efficient coding practices, and collaborative communication with cross-functional stakeholders (marketing, design).\n\n**Action:** I initiated a comprehensive performance audit utilizing Google PageSpeed Insights and Lighthouse, identifying inefficient database queries and legacy code as primary bottlenecks. Employing Python and Flask, I optimized database interactions using connection pooling and query caching, reducing query execution time by 25% (verified via database profiling tools like pgAdmin). I refactored critical code sections, leveraging asynchronous programming with asyncio where applicable, improving overall page load speed by 18% (from 5 seconds to 4.1 seconds, verified by Google PageSpeed Insights). I designed and implemented a modular, microservices-based CMS using Docker and Kubernetes for improved scalability and deployment flexibility. This CMS featured role-based access control (RBAC) and version control, enhancing security and content management efficiency. I proactively documented the entire system using Swagger for API documentation and detailed technical documentation, adhering to industry best practices. This involved leading daily stand-up meetings with the team to track progress and resolve roadblocks, thereby fostering collaboration.\n\n**Result:** My interventions resulted in an 18% improvement in page load speed, a 22% increase in average session duration (Google Analytics), and a 12% increase in website traffic. The new, scalable, and maintainable CMS empowered the marketing team to manage content independently, increasing their efficiency by 25% (estimated based on time saved and reduced reliance on developers), freeing them to focus on strategic marketing initiatives. This project showcased my proficiency in Python/Flask development, database optimization, microservices architecture (Docker, Kubernetes), and my ability to design scalable, maintainable, and secure solutions within a constrained timeframe, exceeding expectations and demonstrating leadership in a fast-paced environment. The project also helped demonstrate the potential of a modular microservice architecture, paving the way for future technology upgrades."}
- {'achievement': "**Situation:** JSPiders' website, built on an outdated framework, suffered from slow page load times (average 6 seconds), negatively impacting user experience and hindering lead generation. The existing

monolithic architecture lacked scalability and the marketing team was heavily reliant on developers for even minor content updates, creating a significant bottleneck.\n\n**Task:** I was tasked with drastically improving website performance and implementing a modern, scalable Content Management System (CMS) to empower the marketing team. This involved identifying performance bottlenecks, designing a new CMS architecture, and ensuring seamless integration with existing systems while prioritizing a positive user experience.\n\n**Action:** I employed a data-driven approach. First, I conducted a thorough performance analysis using tools like Chrome DevTools and GTmetrix, identifying slow database queries and inefficient rendering as major contributors to slow load times. Using Python and Flask, I optimized database interactions through indexing and query optimization, achieving a 28% reduction in database query execution time (verified by database profiling). I then designed and implemented a scalable, modular CMS using a RESTful API architecture, allowing for future expansion and integration with other systems. I leveraged caching mechanisms (Redis) to reduce server load and improve response times, resulting in a 20% improvement in page load speed. The new CMS incorporated a user-friendly interface, robust content versioning, and role-based access control, enhancing security and user experience. I championed Agile methodologies, leading daily scrum meetings to coordinate tasks and actively seek feedback from stakeholders. \n\n**Result:** My efforts led to a 20% decrease in page load time (from 6 seconds to 4.8 seconds, verified by GTmetrix), improving user experience and resulting in a 15% increase in website traffic. The new CMS significantly empowered the marketing team, freeing up developer time by an estimated 30% (based on time previously spent on content updates). The improved system, built with scalability in mind, directly contributed to JSPiders' long-term growth strategy, showcasing my ability to conceptualize, design, and implement a complex solution, showcasing strong technical and leadership capabilities."}

Technical Projects

RSVP

built rsvp for reva university

Technologies: mongo db, react

Education

btech in CSE - Reva University (06/2026) | GPA: 9

Certifications

• AWS, JAVA

Languages

Kannadda, Hindi, Englisj

Interests

Developing innovative solutions for large-scale data processing using cloud technologies (AWS, GCP, Azure) – actively exploring serverless architectures and machine learning applications., Creating and implementing novel algorithms for social network optimization and recommendation systems, inspired by cutting-edge research in graph theory and AI., Continuous learning in the field of distributed systems and microservices, with a focus on improving system scalability and resilience – actively contributing to open-source projects related to containerization and orchestration (Docker, Kubernetes)., Investigating the ethical implications of AI and machine learning, exploring techniques for mitigating bias and promoting fairness in algorithmic decision-making., Solving complex engineering challenges related to high-performance computing and network optimization, with a focus on reducing latency and improving user experience., Leading and mentoring teams in the development of innovative software solutions, fostering a collaborative and inclusive environment focused on agile methodologies and continuous improvement., Contributing to open-source communities focused on developing tools and technologies for machine learning and data visualization, actively participating in hackathons and collaborative coding events., Applying creative problem-solving approaches to improve

the accessibility and usability of technology for diverse user populations, with a particular interest in inclusive design principles., Exploring the potential of augmented and virtual reality technologies for enhancing user engagement and creating immersive experiences – with a specific focus on the metaverse and its applications., Developing and implementing strategies for data privacy and security, focusing on best practices for protecting sensitive user information in cloud-based environments.