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Youtube Link: <https://youtu.be/Tv4JFDIDJBM>

CS 470 Final Reflection

Overview

Completing CS 470 has been a thrilling journey. The knowledge and skills I gained have reshaped my understanding of Full Stack Development and prepared me for the dynamic demands of the IT industry. This course has helped me develop my GitHub portfolio, a testament to my growing expertise and a launchpad for my professional future. This final reflection seeks to summarize these experiences, focusing on the skills I acquired and my ability to plan for growth in the cloud environment.

Experiences and Strengths

CS 470 has greatly amplified my competence in Full Stack Development, empowering me to create complex web applications with proficiency and confidence. From designing responsive front-end interfaces to managing efficient back-end servers and databases, I have honed a holistic understanding of the development process.

My experiences in this course have crystallized several key strengths. My aptitude for problem-solving has been sharpened, fortified by my increased familiarity with debugging tools and techniques. I've also developed an eye for user-centric design, ensuring the applications I build are not only functional but also user-friendly and intuitive.

With the training I received, I am prepared for roles such as Full Stack Developer, Software Engineer, and Cloud Solutions Architect. This course has laid a solid foundation upon which I can build a successful career in tech, focusing on designing, implementing, and managing web-based solutions.

Planning for Growth

The exposure to cloud services has been an integral part of my learning experience. It has taught me to leverage the power of cloud technologies such as microservices and serverless architectures to enhance scalability and management efficiency of web applications.

In terms of scalability and error handling, I'd adopt auto-scaling strategies coupled with error monitoring tools, ensuring efficient resource utilization and prompt error detection. Cost prediction would involve regular monitoring of application usage metrics and adjusting resources as needed.

When considering cost predictability between containers and serverless, serverless often stands out as more predictable due to its pay-as-you-go model, although specific use-cases and workload patterns may swing the balance in favor of containers.

In terms of planning for expansion, the pros of cloud services include flexible scalability, reduced operational overhead, and speedy deployments. However, cons to consider are vendor lock-in risk, potential latency issues, and complex cost structures.

Elasticity and pay-for-service are critical in decision making for future growth. Elasticity allows for efficient resource management, enabling the application to adjust to fluctuating demand, while pay-for-service ensures cost-effectiveness, only charging for the actual resources used.

In conclusion, CS 470 has been an enriching experience, nurturing my development skills and teaching me to think critically about the long-term sustainability of web applications. I'm excited to apply these learnings to my future endeavors and confident of the value they'll bring to potential employers.