ThinkTECH 2023 Applicant Form

* Indicates required question

Selection Criteria - Technical

Questions differ for both types of applicants.

GPA (%) - Average

Application will be holistic and GPA percentage will not be an essential determinant. Please ensure GPA is out of 100.

Your answer

Describe a time you collaborated in a team setting to ensure project success. In your response, detail the kind of role you played and how you contributed to team culture. *

(125 words)

In a recent project, I was the lead developer, collaborating with a Scrum Master, Product Owner, and stakeholders. I played a key role in translating project vision into technical requirements, ensuring alignment between the technical team and stakeholders. During daily Scrum meetings, I provided clear progress updates and engaged in sprint planning with the Product Owner and Scrum Master to prioritize tasks. I contributed to a collaborative team culture by promoting open communication and facilitating knowledge-sharing sessions. This approach ensured everyone was well-versed with evolving project requirements. By fostering a feedback-driven environment and encouraging retrospective discussions after each sprint, I helped maintain a focus on continuous improvement; fostering collaboration.

Summarize a project you are most proud of. In your response, detail the technical role you played and the output of the project. Share a link to the project if available. *

(150 words)

In the development of the Towage Recovery Automation System, I served as the lead developer responsible for the entire lifecycle of the web application. Leveraging PHP PDO for secure database transactions and Ajax for seamless CRUD operations, I built a robust backend that interacted with an MS SQL Server database. For the front-end, I used Bootstrap v4.6.1 for responsive design, jQuery Data Tables for tabular data representation, and Chart.js for data visualization. Sweet Alert was implemented for intuitive user notifications. The application was designed to automate complex calculations and data manipulations, significantly optimizing fund recovery processes in the shipping towage sector. I employed best coding practices, ensuring the application was both maintainable and scalable. The result was a streamlined, user-friendly interface that greatly improved operational efficiency.

Outline the process you took in learning a new technical skill as well as how you applied this skill to a tangible deliverable (Include any frameworks, programming languages, design tools or delivery methods used in addressing the problem). *
(150 words)

When tasked with building the Towage Recovery Automation System, I was proficient in PHP, MS SQL Server, jQuery, Sweet Alert, and Bootstrap, but less so in Ajax which was a mandatory requirement. To fill this gap, I enrolled in a Udemy course called "NEW* AJAX beyond fundamentals" and completed it in two nights. Post-course, I applied Ajax for seamless CRUD operations in the project. I utilized PHP PDO for backend operations and MS SQL Server for the database. The frontend was developed using Bootstrap and jQuery, with Sweet Alert for user notifications. My newly acquired Ajax skills played a crucial role in enhancing the application's interactivity and performance, leading to a successful deliverable that optimized fund recovery processes in the shipping towage recovery system.

What is your favorite digital product (App, Software, etc.)? Assuming you are the Product Manager, suggest a feature update that will increase user satisfaction and/or retention, and explain any KPIs you will use to measure either of these outcomes. *
(150 words)

As a Product Manager for Google Maps, a potential feature update to boost user satisfaction and retention could be enhancing real-time lane guidance and arrow calibration accuracy. Users have noted unclear highway instructions and arrow calibration issues leading to navigation errors. The update could include precise real-time lane guidance, particularly at complex interchanges, and improved directional arrow calibration to reduce misdirection. KPIs for measuring the impact: User Engagement Rate: Monitoring usage of the new lane guidance feature. Error Reports: Tracking error reports regarding lane guidance and arrow accuracy. Retention Rate: Analyzing any increase in retention rate post-update. User Reviews and Ratings: Observing improvements in reviews concerning the updated features. Customer Support Tickets: Evaluating the change in the volume of navigation-related support tickets.

Please submit your resume in pdf format (naming convention: [StudentNumber]-[Last Name]-[First Name]) *

Please be sure to include any previous hackathon or case competition experience if applicable.

Achilefu_Madua...

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