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| **Name** | Venkatroyal Ayyappan | | |
| **Email** | [vroyal@gmail.com](mailto:vroyal@gmail.com) | | |
| **Current Role** | Senior Consultant - Cloud Application Architect | **Number of Years/Months in the role** | 5+ |
| **Current Responsibilities** | * Part of Architects team to support the delivery team on Architecture/Design aspects * Design Review, Code Review for Delivery Team * Mentoring & Supporting the Delivery Team * POC Development for any technical debts/features * Baselining the Project Architecture,Refactoring existing application code/architecture | | |

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| **Please describe technical competences you specialize in.**  **Note: use N/A if no experience.** |
| **Front-end Technologies: ReactJS**  **Back-end Technologies: .NET Core (C#)**  **Databases: SQL Server**  **Cloud Platforms: Microsoft Azure** |

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| **What is your exposure to building web applications that leverage AI/ML Models? How is the ML model integrated with the application? Please describe using a project you have worked on.** |
| **I have experience in Azure Cognitive services like Form Recognizer,LUIS,Cognitive Search etc. which are completely PaaS services.**  **Form Recognizer : In one of my previous projects, there is a requirement to perform data extraction from the PDF documents and all the PDF documents will not be in same format.**  **So I evaluated few components in the major cloud providers and suggested FormRecognizer will be a good fit.**  **The model type should be a custom model rather than using a pre-built model. Different type of PDF documents will be trained and available as model for extracting configured fields of data.**  **From the Front End application, we need to invoke an wrapper API which in turn uses the FormRecognizer SDK Or REST API to feed & extract the data according to the model available.** |

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| **Design and implement a web application that would allow users to:**  **Functional Requirements**   * **Upload and persist pricing feeds from retail stores using CSV files which contain Store ID, SKU, Product Name, Price, Date** * **Search for pricing records using various criteria and be able to edit/save changes to any record**   **Non-Functional Requirements`**   * **Standard set of non-functional requirements you would expect a retail stores chain with 3000 stores across multiple countries**   **Please feel free to choose the technology stack and frameworks you are comfortable with and implement a single page web application.**  **Expected Deliverables:**   * **Context Diagram** * **Solution Architecture** * **Design Decisions** * **Non-functional requirements considered and how the design addresses them** * **Assumptions** * **Source for the implementation**   **Upload the artifacts and source to your Github repository and include a reference to it as part of the response.** |
| **Primary GitHub Repo URL:**  [**https://github.com/Venkatroyal/Architect\_Case\_Study**](https://github.com/Venkatroyal/Architect_Case_Study)  **Artifacts:**  **https://github.com/Venkatroyal/Architect\_Case\_Study/tree/main/Artifacts**  **https://github.com/Venkatroyal/Architect\_Case\_Study/blob/main/Artifacts/Architecture.pdf** |