Sai Vamshi Thonukunuri

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EDUCATION

University of Alabama at Birmingham, Birmingham, USA   Jan 2023-Apr 2024
Master of Science, Computer Science   GPA: 3.60
TKR College of Engineering & Technology, Hyderabad, India   **Aug 2016-Oct 2020**

Bachelor of Technology, Electronics & Communications Engineering.   **GPA: 2.75/4**

WORK EXPERIENCE

Accenture solutions Pvt. Ltd. – Hyderabad, India.   **Apr 2021- Dec 2022**
Associate Software Engineer
- Worked as **Application Development Associate** at Accenture India and been part of multiple projects on D365.
- Been part of one of the Capability units (PoPS- Power Platform Studio) in Accenture and involved in building multiple POC's, custom solutions on D365, building canvas and model-driven apps in Microsoft Power Platform and building reports using Power BI and built many websites/web applications (using Power Platform/Power pages).
- Implemented and deployed change requests, UI and functionality enhancements to the existing solutions.

TECHNICAL SKILLS
- **Technical Languages:** Python, SQL, React JS, HTML, Node JS, XRM JavaScript, C#(.Net).
- **Platforms:** Microsoft Dynamics CRM(Technical), Microsoft Power Apps, Microsoft Power BI, Microsoft Power Automate, Microsoft Power Automate, Azure.

PROJECTS

Socket Programming using Python   Mar 2024 - Apr 2024
- Developed a robotic interface that allows a local control system, like a computer, and a robot to communicate over TCP and UDP.
- This is a bidirectional communication between the controller and robotic system Here, a TCP connection is used to send the blazer id to the robotic system once communication between the controlling device and robotic system has been established. The robot then answers with a TCP port number for more communication.
- The control system then uses UDP protocol to send numerical data to the robotic system.
- This project handles the communication between the control system and robotic system ensuring that the communication is seamless with no data loss.

QR-Based Ordering in Restaurants (Reactjs, Firebase, HTML/ CSS)   Jul 2023- Aug 2023
- Developed a system to enhance the dining experience by simplifying the ordering and bill payment process in restaurants.
- Customers can place orders using their mobile phones by scanning a QR code placed on their table, eliminating the need for physical menus and waiter interaction.
- Orders are automatically redirected to the kitchen for food preparation, and waiters serve the food to customers.
- The system generates bills on the customer's web application, allowing for online payment without the need for manual bill presentation or payment collection.

Interactive Chatbot (Power Virtual Agents and Power Automate)   Oct 2022-Dec 2022
- Developed a fully interactive chatbot for a client using Power Virtual Agents which is embedded into a website for customer support.
- Developed a roadmap outlining the chatbot's required responses for various user-posed inquiries on the Power Virtual agents back end.
- Used Power Automate for more complex tasks like retrieving data from database or other sources through api.
- In Dynamics 365, a feature was created to allow chat transfers from a bot to a human agent if the chatbot is unable to assist.

Dynamic Website using Power Pages/Power Portals   Jul 2022-Sep 2022
- Designed and developed a dynamic website with an interactive user experience using Power Pages/Portals.
- To improve the user experience, integrate a few advanced features like webforms, workflows, and automation.
- Special features, which include auto-populating some fields based on other fields in the form, were implemented using JavaScript.
- Worked with various CDS forms to create new records or modify existing ones.

Data Visualization using Power BI   May 2022-Jun 2022

- Using client data from various data sources, a PowerBi visualization was created where multiple PowerBi computational formulas were applied for a few computations involving data representation for in-depth analysis.
- Made use of several PowerBi tile types, such as mapping the locations in a map view and displaying a text representation next to a selected place on the map that indicates the location's sales total.
- A few tabular representations of the client's sales and workforce data based on location were provided on a separate page of the same representation.

Model Driven App (Microsoft Dynamics 365)   Dec 2021-Apr 2022

- Developed a Model Driven App using Dynamics 365 where the application is used to store and maintain a client company's data.
- Among the many different features of this application are its custom buttons, form fields, entities, and several automations.
- Custom buttons are designed and embedded into the app using the tool Ribbon Workbench.
- Using XRM JavaScript, a custom form field was created that has rich text field features.
- Used both built-in Dynamics workflows and Power Automate for automation.
- Many table permissions and role level permissions had been setup for extra security according to the business requirements.

Canvas Apps (using PowerApps)   Aug 2021-Nov 2021

- Contributed to the development of numerous canvas apps at Accenture in PoPS utilizing PowerApps technology as Proofs of Concept for future improvement in accordance with business needs.
- These canvas apps are designed for use in Mobiles/Tablets where many custom functionalities like retrieving from Dataverse on click of a button using power automate and eliminating duplicate records in the Dataverse.
- In certain use cases, SharePoint was used as the back end to store data, and Microsoft Power Automate was used to automate the retrieval and modification of data.
- Integrated PowerBi visuals for user analytics for the client company into the canvas app.

Certificates

- Microsoft PL-200 – (Microsoft Certified - Power Platform Functional Consultant Associate)   Sep 2021
- Microsoft PL-900 – (Microsoft Certified - Power Platform Fundamentals)   Jan 2022
- Microsoft AZ-900 – (Microsoft Certified - Azure Fundamentals)   Aug 2021
- Microsoft SC-900 – (Microsoft Certified - Security, Compliance, and Identity Fundamentals)   Jul 2021
- Microsoft PL-100 – (Microsoft Certified - Power Platform App Maker Associate)   May 2022