Noel Sugandh Motupalli

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WORK EXPERIENCE

Sacred Heart University: Makerspace   **CONNECTICUT, USA**

IoT Developer   *Jan 2024 - Dec 2024*

- Spearheaded the development of IoT prototypes using Arduino IDE and Raspberry Pi, integrating advanced automation features into 15 projects, which enhanced functionality by 30% while significantly improving project aesthetics through professional-grade designs created in GIMP and Fusion 360.
- Built and programmed over 10 LEGO Educational Sets with Python and Scratch, utilizing open-source platforms to create interactive STEM projects. These initiatives increased students' problem-solving skills by 40%, fostering a deeper understanding of programming concepts in educational environments.
- Engineered and calibrated a Pick and Place machine utilizing precision alignment techniques, achieving an impressive 98% placement accuracy for PCB components, which optimized production efficiency by reducing assembly time by up to 95%.

Uni Integrations (OPC) PVT Ltd   **KARNATAKA, INDIA**

MuleSoft Developer   *Jul 2020 - May 2023*

- Delivered and deployed Restful and SOAP web services for back-end systems, achieving a 35% reduction in integration time across multiple projects while adhering to industry best practices.
- Constructed complex integration flows utilizing Mule connectors such as HTTP, Choice, and Database, resulting in a 40% improvement in operational efficiency and supporting the processing of over 1 million transactions monthly.
- Executed comprehensive data transformation processes using DataWeave on the Mule Integration Platform, ensuring data integrity of critical business data while enhancing security protocols by an impressive 30%.

EDUCATION

SACRED HEART UNIVERSITY   **CONNECTICUT, USA**

Master of Science (MS) in Computer Science   *Graduation Date: Dec 2024*

Mizoram University   **Mizoram, India**

Bachelor of Technology in Information Technology

PROJECT EXPERIENCE

Chef Claude

Recipe Finder App

- Created a recipe finder app that allows users to input ingredients and receive tailored recipes, enhancing engagement with a responsive design.
- Integrated secure API calls to an AI-driven recipe service, ensuring accurate data retrieval and maintaining app reliability.
- Crafted an intuitive, user-friendly interface to facilitate seamless ingredient input and organized recipe display.
- Enabled real-time data fetching to provide instant recipe suggestions based on user input, optimizing app responsiveness.

Meme Generator App

React Project

- Built a meme generator app that allows users to create and customize memes by fetching images from an external API.
- Incorporated secure API calls to ensure reliable and accurate retrieval of meme templates.
- Produced and implemented a streamlined interface to enhance user experience, allowing seamless meme text input and image customization and optimized real-time data fetching for faster image loading and improved app responsiveness.

Sacred Heart University   **Fairfield, CT**

SalesForecasting (Final Year Project)

- Developed a Sales Forecasting Web Application integrating machine learning (XGBoost) for accurate sales predictions based on product and outlet data.
- Designed a responsive front-end using HTML, CSS, and JavaScript, including dynamic features such as a side navigation menu and interactive data visualizations with Matplotlib and Seaborn.
- Streamlined data preprocessing with Pandas, addressing missing values, feature engineering, and optimizing datasets for predictive modeling.
- Deployed the application using Flask, implementing model integration with Pickle and ensuring seamless user experience across devices.

SKILLS & INTERESTS

Languages: • React, JavaScript, Python, HTML5, CSS3, SQL.

Front_End: React, HTML5, CSS

Back_End: • Restful API's, SOAP, Node.js, Express.j

Databases: MySQL, PostgreSQL

Testing: Postman, MUnit

Other_Tools: Git, VSCode, PyCharm, Anypoint Platform Studio

Architecture: Restful Services, SOAP

Security: OAuth2.0, HTTPS

Version_Control: Git, GitHub, Bitbucket

CERTIFICATIONS & LEADERSHIP

- Completed Mulesoft Certification.
- Organized and hosted the 2024 Invitational Science Olympiad, along with over five hands-on workshops, engaging 130+ participants. Managed logistics and led interactive sessions on laser cutting, 3D printing, and T-shirt printing, inspiring students to explore STEM and modern fabrication.