

RICHARD JOSEPH

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WORK EXPERIENCE

CARESTACK - PRODUCT ENGINEER INTERN

JUL 2024 - DECEMBER 2024

- **AI Automation with Azure:** Developed AI-driven solutions to automate phone call transcription and form completion, leveraging **Azure Functions** for serverless deployment. Employed **question answering models** within the Azure ecosystem to streamline data processing.
- **Cost Efficiency and Productivity:** Significantly reduced reliance on manual labor and operational costs, enhancing overall process efficiency and productivity through **Azure tools**.

SOLYIELD - AI ENGINEER INTERN

FEB 2024 - APRIL 2024

- **Created and Fine-tuned ML Models:** Utilized CNNs, Bi-directional LSTMs, and Transformers to accurately predict output generation from solar panels, enhancing both efficiency and reliability.
- **Spearheaded FAQ Chatbot Development:** Worked on FAQ chatbot, integrating it seamlessly with LLMs using RASA. This initiative streamlined customer interactions and improved support processes.

PROJECTS

FIDELIUS

OCTOBER 2024 - PRESENT

- **AI-Powered Data Masking and Obfuscation Tool:** Led the development of a data masking tool leveraging Large Language Models (Llama 3.2) that runs locally in the system. Used to remove Personally Identifiable Information (PII) from CSV [Excel, PDF/Text and Audio files. Enhanced tool flexibility with a feature for user-defined masking and obfuscation prompts.

MONITUS AI

SEPTEMBER 2023 - PRESENT

- **Predictive Healthcare Application:** Engineered a generative AI tool that predicts adverse drug reactions based on patient demographics and medical history. Implemented using Flask and MongoDB, with predictions enhanced by knowledge base embeddings and fine-tuning on Large Language Models.

CASA AI

AUGUST 2023 - PRESENT

- **Automated Architectural Design:** Created a generative AI tool for producing optimized architectural house plans and 3D representations based on user inputs. Utilized **Stable Diffusion** and trained LoRa models for generating architectural plans and **OpenCV** with **three.js** for visualization.

EDUCATION

BTECH IN COMPUTER SCIENCE ENGINEERING

YEAR 2025

College of Engineering Trivandrum

GPA- 9.37

HIGHER SSECONDARY (CBSE)

YEAR 2020

Kendriya Vidyalaya No.1 Kochi

Percentage- 95.6

SKILLS

ADVANCED

Data Structures and Algorithms, Gen AI - LLMs, Audio & Image Models, MongoDB, NLP

COMFORTABLE

C, C++, Python, SQL, .NET, Java, Qdrant (vector database), PostgreSQL, Flask, Git, Azure, OpenCV, Machine Learning, Embeddings, Transformers

ACQUAINTED

UI/UX Design (Figma), HTML, CSS, JavaScript

AWARDS AND ACHIEVEMENTS

HACKAI - DELL AND NVIDIA CHALLENGE - TOP 30 Finalist

2024

- GLOBAL HACKATHON - Placed in the top 30 globally

TECH CHAMPIONSHIP 2024 BY ALLIANZ TECHNOLOGY INDIA - Winner

2024

- NATIONAL LEVEL SCHOLARSHIP - Placed among the top 50 winners. Won Scholarship of € 3000 euros

UST D3CODE - TOP 5 Finalist

2023

- NATIONAL LEVEL HACKATHON - Placed top 5 out of 11,000 teams. 2 Lakh INR

CYIENTIFIQ INNOVATION LEAGUE - VALUE INNOVATION AWARD

2023

- GLOBAL HACKATHON - Value Innovation Award. \$1000

PRADHAN MANTRI BAL SHAKTI PURASKAR 2020

2020

- Award from President of India for achievements in the field of Science and Innovation. 1 Lakh INR

INTEL ISEF GRAND AWARD

2019

- Intel International Science and Engineering Fair- 2nd Grand award - \$2200

ROLES AND RESPONSIBILITIES

TINKERHUB CET - PROJECT FACILITATOR

JAN 2023 - PRESENT

- Lead and organize technology-focused events to foster innovation and community engagement.

INTERNSHIP CELL CET - Co CONVENOR

FEB 2022 - PRESENT

- Manage internship programs, enhancing career development services for students.