Oswin Alex

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EDUCATION

Don Bosco Institute of Technology Dec. 2021 – May 2025(Expected)
Bachelor of Engineering in Information Technology (CGPA- 7.24)

Xaviers Technical Institute Sep. 2019 – Sep. 2022
Diploma in Electronics and Telecommunication Engineering (Percentage- 74.03)

CERTIFICATION

AWS Academy Graduate AWS Academy Cloud Foundations Link Apr. 2025
Issued by Amazon Web Services

- Completed a 20-hour foundational cloud computing course covering core AWS services, architecture, pricing, and support.
- Gained practical knowledge of core AWS services such as EC2, S3, IAM, VPC, RDS, Lambda, and CloudFormation.
- Developed a strong understanding of cloud security, shared responsibility model, identity and access management (IAM), and compliance frameworks.

EXPERIENCE

Department of Information Technology, DBIT Sep. 2023 – Aug. 2024
Web Developer and Maintainer Intern

- Development amd maintenance of the institution's website.
- Implemented performance optimization, resulting in **20-30% faster load times**.
- Tech Stack: **HTML**, **CSS**, **JavaScript**.

AICTE,Alteryx Apr. 2024 – Jun. 2024
Data Analytics Virtual Intern

- Gained hands-on experience with data analytics tools and techniques.
- Enhanced proficiency in data analysis processes and methodologies.

PROJECTS

Centralized DE-Addiction Centers System Link

- Developed a web application to manage addiction rehabilitation centers using a centralized system
- Integrated a **role-based access control (RBAC)** model for secure user access management
- Implemented **CRUD operations** for managing patient records, appointments, and schedules
- Utilized the **Leaflet.js library** to display nearby addiction recovery centers on a map
- Implemented **Blowfish Cipher encryption** to securely store sensitive data such as patient information
- Tech stack: **React.js**, **Node.js**, **Express.js**, **MongoDB**, **TypeScript**

Data Analysis and Prediction on Drug Addicts Link

- Predicted recovery time of drug-addicted patients by analyzing various factors using supervised learning algorithms
- Gained insights and patterns in the recovery process and drug usage across different demographics
- Tech stack: **Pandas**, **NumPy**, **Scikit-learn**, **Matplotlib**

IoT-Based Smart Blind Stick Link

- Developed a smart stick equipped with **ultrasonic sensors** to detect obstacles and provide feedback to the user.
- Integrated an **emergency button** to send an SMS with the user's **current location** to a designated caretaker.
- Implemented **live tracking** on a web platform using **WebSocket protocol** and **Leaflet.js**.
- Utilized hardware components like **GSM module**, **GPS module**, **NodeMCU**, and **ultrasonic sensors**.
- Tech stack: **Express.js**, **Node.js**, **React.js**, **MongoDB**, **Leaflet.js**, **WebSocket protocol**

SKILLS

Languages : Java ,Python, JavaScript
Databases : MySql , MongoDb
Frameworks : React js, Node js, Express js, Flutter
Tools : Git, Docker, Jenkins, AWS, postman, Wireshark

ACHIEVEMENTS

Winner, Innovex 2025 Annual Project Exhibition at DBIT Mar. 2025
Project: LawQuest - THE SCHOOL EDITION

- Won first place for developing an interactive gamified platform to spread legal awareness among school students by teaching their rights and values in an engaging and accessible manner.
- Tech stack: **C#**, **Unity**

Finalist, Yukti Startup Innovation Challenge 2024 Mar. 2024
Innovation: Centralized System for De-addiction Centers

- Selected as a finalist for presenting a scalable and innovative solution for improving coordination and data transparency among de-addiction centers.

Winner, Smart India Hackathon 2023 Dec. 2023
Problem Statement: SIH1366 Centralized System for De-addiction Centers

- Developed a centralized system to streamline processes across addiction centers, focusing on patient tracking, doctor assignments, and rehabilitation progress.
- Tech stack: **React.js**, **Node.js**, **Express.js**, **MongoDB**, **TypeScript**