Deon Berton Gracias

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EXPERIENCE

BI Specialist — *Alexander Mann Solutions*

- Optimize data models using advanced tools to deliver actionable insights, refactoring schemas to enhance performance and support business decision-making. Lead complex data projects by collaborating with stakeholders, implementing automation, and using data storytelling to drive operational efficiency and strategic alignment.

Software Developer Intern — *University of Mumbai*

JUL 2023 - JAN 2024

- Developed a comprehensive full stack solution using Next.js and Pocketbase for managing data related to colleges, courses, subjects, and teachers.
- Implemented role-based authentication, access control protocols, and backend and database optimizations for scalability. Led the Paper Tracking Project to streamline answer paper management using unique IDs and barcode technology for real-time updates.
- Utilized Next.js, React.js, Recharts, and Pocketbase and followed agile development practices to ensure project success and recognized for outstanding performance and dedication in advancing institutional data management and operational efficiency.

Mobile App Developer Intern — *AiM4u Software Solutions*

DEC 2022 - MAR 2023

- Improved an existing mobile app with updated technology and features, resulting in better performance and increased customer satisfaction.
- Upgraded to the latest Flutter version, integrated packages and APIs, and rewrote legacy code for compatibility.
- Implemented new features, such as Firebase integration, authentication, Agora video call, doctor filters, and registration, and addressed bug fixes.

Instructor — *Static Int. Educare*

JULY 2022 - NOV 2022

- Mentored and guided over 200 students in programming fundamentals, focusing on Git version control, Android Studio, Flutter, Python programming & Essential data structures and algorithms.
- Actively developed educational websites using HTML, CSS, and JavaScript to create dynamic learning platforms.

Web Developer — *Static Int. Educare*

AUG 2020 - JULY 2022

- Coordinated a cross-functional team of 5 developers, delegating tasks and ensuring client requirements were met within 1 month, resulting in a 30% increase in website traffic.
- Engineered an automated certificate generation system using Python and MS Word, enabling the creation of certificates for 500 candidates in under 60 seconds.

PROJECTS

Tree Transparency — *Web, Blockchain, CV & IoT*

A web 3 app on blockchain for transparent fund transfers and tree planting by NGOs and government bodies. Implemented tracking and reward system for citizen volunteers. Features buying/selling of trees and crowdfunding for tree maintenance. Utilized Next.js, Ethers.js, Hardhat, IPFS, and Firebase. Aims to improve tree growth by recording and analyzing data.

Agriculture IoT — *Web, ML & IoT*

Agriculture solution developed with IoT for extracting real-time data and machine learning models for crop recommendation, disease identification, and insect detection, all integrated into a single platform using Next.js, Python Flask, Firebase, and Node.js.

Edutube — *Web, ML & Mobile*

Enhancing the credibility of YouTube playlists by offering customizable tests based on NLP-generated subtitles from each video, ensuring a reliable and inclusive learning experience. Users can earn certifications based on their test results. Built using Python Flask, Firebase, and Flutter.

PUBLICATIONS

A Comprehensive System for Sustainable Tree Plantation and Growth Monitoring using Blockchain, AI, and IoT — *IJISAE (Q3 Scopus Indexed)*
Int J Intell Syst Appl Eng, vol. 12, no. 21s, pp. 955–961, Mar. 2024.

Edutube: Enhancing Credibility & User Experience Online — *IJFMR*
DOI: 10.36948/ijfmr.2023.v05i05.7145

Underwater Wireless Communication using Acoustic & Optical Waves — *IJIRCCE*
DOI: 10.15680/IJIRCCE.2021.0906119

SKILLS

Languages: C, C++, Python, Java, JavaScript, Typescript, Go, Dart, SQL, Bash, Solidity.
Machine Learning & Data Science: Tensorflow, Scipy, Pandas, NumPy, Matplotlib.
Web Development: Next.js, React.js, Node.js, Flask, Django, PHP, Firebase, Figma, Pocketbase
Development, Deployment & Testing: Docker, Linux, Git, GitHub, Jest, Hardhat, AWS, Google Cloud, Postman
Database: PostgreSQL, MySQL, MongoDB

CERTIFICATIONS

Deloitte - Technology Virtual Experience Program
HackerRank - Problem Solving, SQL, Java, JavaScript, Rest API
Kaggle - Machine Learning
Google - Analytics Certification
Postman - Student Leader, Student Expert

AWARDS

2024 - Winner of IEEE Student Engineering Team Challenge, Pre-incubation for startup at University of Mumbai - MU Ideas Foundation.
2023 - Winner of Crescendo Hackathon, Engage Hackathon & Stratagem Hackathon. Reached Level 3 in E-Yantra Robotics Competition.
2022 - Winner of Crescendo Elexathon, Mechathon & Ingenium Ideathon.
2020 - Winner of Paper Presentation Tantra Utsav & Best Efforts in IT Department.

EDUCATION

Fr. Conceicao Rodrigues College of Engineering — *Degree in Computer Engineering (9.09 CGPA)*
SEP 2021 - JUL 2024

Thakur Polytechnic — *Diploma in Information Technology (97%)*
AUG 2019 - AUG 2021

POSITION OF RESPONSIBILITY

Postman Student Leader — *Postman*
JUL 2023 - JUL 2024

Co Lead — *Google Developer Students Club CRCE*
JUL 2022 - JUL 2023