Dhruvadeep Malakar

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EDUCATION

Indian Institute of Technology Palakkad	Palakkad, KL
Bachelor of Technology in Data Science	*Nov 2022 – Present*
Maharishi Vidya Mandir	Guwahati, AS
Science Stream (CS)	*Aug. 2020 – March 2022*

CAREER OBJECTIVE

A driven data science student with a notable inclination towards application development and a thorough grasp of computer networks. Pursuing opportunities to merge proficiency in data science with a passion for crafting inventive applications. By integrating skills in data analytics and application development, striving to devise impactful solutions that cater to user requirements, streamline processes, and foster business expansion

PROJECTS

Social Media API | *Python, FastAPI, PostgreSQL, SQLAlchemy* — Feb 2023 – Jul 2023
- Developed a API using with Fast serving a REST API with help of SQLAlchemy
- Implemented OAuth2 for authentication of trusted users

Slot Booking System | *Postgres, SQLAlchemy, Python, FastAPI, HTML, CSS, JS* — Jan 2024 – May 2024
- Developed a robust Slot Booking System using FastAPI and PostgreSQL, ensuring seamless and efficient handling of thousands of requests with zero downtime.
- Implemented transactional integrity to prevent double booking of slots, ensuring reliable and conflict-free reservations for all users.
- Designed a user-friendly interface with pure HTML, CSS, and JavaScript, and integrated secure authentication mechanisms to provide a smooth and secure user experience.

POSITION OF RESPONSIBILITIES

IAR Editorial Head — July 2023 – Present
IIT Palakkad — *Palakkad, KL*
- Organized and hosted numerous events aimed at providing college students with insights into international opportunities and career guidance
- Established and maintained effective communication channels with graduates, fostering ongoing engagement and cultivating a sense of community within the alumni network

YACC Associate — Mar. 2023 – Present
IIT Palakkad — *Palakkad, KL*
- Held a leadership role in YACC Associate, overseeing the planning and execution of multiple coding competitions and events, including game development and software development challenges
- Personally orchestrated Algotrek, Kerala's largest coding competition, attracting thousands of participants and showcasing organizational prowess on a significant scale

TECHNICAL SKILLS

Languages: Python, C++, GO, SQL (Postgres, MYSQL), MongoDB,JavaScript, HTML/CSS
Frameworks: React, Svelte, Node.js, FastAPI, Tailwind, Fiber
Developer Tools: Git, Amazon Web Services, VS Code, Nginx

COURSES AND CERTIFICATION

Data Stuctures and Algorithm: Linked Lists, Trees, Graphs, DP, Tries, Hash Maps, Greedy,etc
Optimization: Gradient Decent, Newtons Method, Linear Programming, Quadratic, Convex Programming
Artificial Intelligence: Search, Adversarial Search, Probabilistic Reasoning, etc
Database Management System: Database Design, Storage Management and Indexing, Query processing and optimization, Transaction, Concurrency, etc