

Dhruvadeep Malakar

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EDUCATION

Indian Institute of Technology Palakkad

Bachelor of Technology in Data Science

Palakkad, KL

Nov 2022 – Present

Maharishi Vidya Mandir

Science Stream (CS)

Guwahati, AS

Aug. 2020 – March 2022

PROJECTS

Slot Booking System | *Postgres, SQLAlchemy, Python, FastAPI, HTML, CSS, JS*

Jan 2024 – May 2024

- Engineered 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, integrating secure authentication mechanisms to provide a smooth and secure user experience.

Snippetbox: Pastebin Alternative | *MySQL, GO, Devops, HTML Template*

Jan 2024 – Present

- Developed a web application using pure Go for pasting and sharing snippets of text, inspired by platforms like Pastebin and GitHub's Gists.
- Designed the application to generate a shareable link for each snippet, with the link's validity defined by the user
- Structured the project to support efficient routing, database interactions, form processing, and the safe display of dynamic data.
- Added user account management features, including session management and user authentication, to restrict snippet creation to registered users.

Email Marketing Software and Server | *Devops, NodeJS, Nginx, PHP, MariaDB*

March 2023 – July 2024

- Developed a comprehensive email marketing solution incorporating both SMTP and IMAP servers using Postfix and Dovecot, with PostfixAdmin for efficient monitoring and management
- Engineered custom scripts for marketing and transactional emails, enhancing client engagement and operational efficiency for newsletters and transactional communications
- Sold the complete solution to a local marketing agency for INR 100,000, demonstrating the project's value and practical application in a commercial setting.
- Monitored system performance and user feedback, leading to continuous improvements and adherence to industry best practices

POSITION OF RESPONSIBILITIES

YACC Lead

Mar. 2023 – Present

IIT Palakkad

Palakkad, KL

- Led YACC Associate, overseeing the planning and execution of multiple coding competitions and events, including game development and software development challenges
- Orchestrated Algotrek, Kerala's largest coding competition, attracting thousands of participants and demonstrating organizational skills on a significant scale

TECHNICAL SKILLS

Languages: Python, C++, Go, SQL (Postgres, MySQL), JavaScript, HTML/CSS

Frameworks and Libraries: React, Svelte, Node.js, FastAPI, Fiber, Tailwind, React Native

Databases: PostgreSQL, MySQL, MongoDB

Developer Tools: Git, Amazon Web Services (AWS), VS Code, Nginx

Machine Learning and Deep Learning: Jupyter, TensorFlow, PyTorch

COURSES AND CERTIFICATION

Data Structures and Algorithm: Linked Lists, Trees, Graphs, DP, Tries, Hash Maps, Greedy, etc

Artificial Intelligence: Search, Adversarial Search, Probabilistic Reasoning, etc

Database Management System: Database Design, Storage Management and Indexing, Query processing and optimization, Transaction, Concurrency, etc