

Alaguvel A

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📍 Chennai, Tamil Nadu

Summary

Motivated and detail-oriented Python Full Stack Developer Intern with a strong passion for web development and continuous learning. Skilled in Python, HTML, CSS, MySQL, and currently expanding knowledge in JavaScript, React. Interested in building user-friendly web applications and improving problem-solving skills through real-time projects and daily practice.

Internship Experience

Python Full Stack Developer Intern,

BDreamz Global Solutions Pvt Ltd, Chennai.

Jan 2026-Present

- Assisted in developing and maintaining web application features using Python and front-end technologies.
- Worked on responsive user interface design using HTML and CSS for better user experience.
- Gained practical exposure to database operations and backend integration using MySQL.
- Improved debugging, problem-solving, and coding skills through hands-on project development.

Technical Skills

Languages - Python, MySQL, Frontend

Database Management - MySQL, Query Writing, Joins, Aggregate Functions, Data Storage & Retrieval.

Tools & Platforms - PyCharm, VS Code, MySQL Workbench, GitHub, MS Word

Projects

Mental Health & Addiction Recovery Management System

Python | MySQL

- A desktop-based application built using Python (Tkinter) and MySQL for managing mental health and addiction recovery data.
- Features include user assessment, automated score calculation using SQL triggers, and an admin analytics dashboard for data analysis and monitoring.
- Demonstrated skills in Python programming, database integration, and GUI development.

AI Based Smart Irrigation System Using Weather Prediction

ESP32 | IoT

- Built a prototype integrating ESP32, LM393 soil moisture sensor, DHT11, relay module, and submersible pump, powered LM2596 buck converter.
- Implemented AI-based decision logic on the ESP32 firmware to combine soil moisture readings and rain probability from the OpenWeatherMap API, automatically activating the pump when needed to conserve water.

Education

B.E. Electronics and Communication Engineering

2022-2026

PSN Institute of Technology and Science, [CGPA: 7.79]