

WILFRED DSOUZA

Final Year Undergraduate, NMIT Bangalore

Major: Artificial Intelligence and Machine Learning

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EDUCATION

Year	Qualification	School/Institution	CGPA/%
2023–2027	B.E.	Nitte Meenakshi Institute of Technology, Bangalore	9.2/10
2020–2022	Pre-University (XII)	St. Aloysius College, Mangalore	92.6%
2010–2020	CBSE X	Aditya Birla Public School, Gujarat	97.2%

ACHIEVEMENTS

- **IIT Madras — Diploma in Programming & Data Science**, achieving a 7.59/10 CGPA and 7.75/10 Project CGPA
- **Amazon ML Summer School 2025**
- **2nd Prize — GDG Project Decrypt**
- **Grand Finalist — Cardano Hackathon Asia (IBW Edition 2025)**, ranked among the Top 112 of 5,500+ teams

WORK EXPERIENCE

Hidevs (Just Inc.)

Jan 2026 – Apr 2026

Full Stack Developer Intern

- Developed and enhanced full-stack features for the platform using **Next.js, Node.js, MongoDB, and GCP**, working across responsive **UI/UX**, REST APIs, database models, and admin workflows.
- Built and managed the end-to-end **gamified learning experience**, implementing level/day-based progression, activity completion, scoring, streaks, leaderboards, badges, and project-based milestones for a learning journey with **100+ students enrolled**.
- Developed and integrated backend services for **project evaluation, assessments, learning workflows, and user progression**, connecting platform services with external APIs and automated processing pipelines.
- Implemented **GitHub-integrated project workflows** using GitHub APIs/OAuth, supporting repository integration, project submissions, automated code analysis, and evaluation workflows.
- Developed a **real-time DSA assessment system** with collaborative rooms and live scoring; replaced 10-second polling with **SSE-based server push**, eliminating periodic room-update requests.

TECHNICAL SKILLS

Languages: Java, Python, C

Web & Backend: Spring Boot / Spring MVC (Familiar), Node.js, Express, REST APIs, MVC Architecture, HTML/CSS, JavaScript

Databases: MySQL, OracleDB, MongoDB

ML & Data: TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

Cloud & DevOps: GCP, AWS, Docker, Linux, CI/CD

Tools: Git, GitHub, Redis, Celery

POSITIONS OF RESPONSIBILITY

Tech Team Lead — Diseno Diveno, Design Club, NMIT

- Led a **technical team of 8 members** in planning, developing, and maintaining web platforms for club initiatives and events including **SparkLab, Race to Innovate, recruitment drives**, and other technical initiatives.
- Designed and developed the **SparkLab website and participant portal**, supporting the digital infrastructure for the event with a total budget of **2.5 lakh**.

KEY PROJECTS

LURK — AI-Powered Runtime Website Testing Framework



Final Year Project | React, TypeScript, Node.js/Express, FastAPI, Manifest V3 Chrome Extension, Supabase

- Architected a **5-layer AI-powered runtime testing framework** spanning a Manifest V3 Chrome extension, TypeScript processing engine, FastAPI AI service, Express backend, and React dashboard.
- Engineered **runtime telemetry collection** for user interactions, console errors, network failures, long tasks, and Web Vitals during live browsing.
- Implemented **event correlation and automated issue detection** within a 1000ms interaction window, linking runtime failures and performance issues to preceding user actions.
- Integrated **Groq LLM inference** to generate root-cause analysis and remediation recommendations, with deterministic fallback processing.

ParkMate — Vehicle Parking Management System



MAD II Project, IIT Madras (BSCS2006P) | Flask, Vue.js, Celery, Redis, JWT, Chart.js

- Built a **full-stack parking reservation platform** with JWT authentication, parking search, reservations, spot management, and admin workflows.
- Implemented **asynchronous background processing** using Celery and Redis for exports, reminders, and automated report generation.
- Developed **analytics dashboards** with Chart.js for monitoring parking usage and revenue.

Household Services Platform



MAD I Project, IIT Madras (BSCS2003P) | Flask, SQLAlchemy, SQLite, Jinja2, Matplotlib

- Developed a **multi-role household services platform** supporting customers, service providers, and administrators.
- Implemented service discovery, **cart and checkout, order management, provider onboarding**, and admin approval workflows.
- Built **analytics and reporting features** using Matplotlib to visualize platform activity.

NestFinder — Real Estate Web Application



Advanced Java (22AME654) | Java, Servlets, JSP, JDBC, Oracle DB, Apache Tomcat

- Built a real-estate web application using a layered **Servlet, DAO, and JDBC architecture** with JSP-based interfaces.
- Implemented **authentication and role-based workflows** for administrators and users, with session management and password hashing.
- Developed **property listing and inquiry workflows**, integrating the application with an Oracle database and Apache Tomcat.

RELEVANT COURSES

Data Structures & Algorithms

Database Management Systems

Object-Oriented Programming

Operating Systems

Computer Networks

Machine Learning

Artificial Intelligence

Modern Application Development

Advanced Java