ALWIN XAVIER A

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PROFESSIONAL SUMMARY

A highly motivated Electronics and Communication Engineering (ECE) student with a strong passion for software development and a drive to bring world-class innovation. Experienced in web development, debugging, and building applications with low latency and high availability. Adept at using NoSQL and SQL databases, cloud platforms, and frameworks. Passionate about DSA and problem-solving, I aim to contribute to impactful product development projects that deliver scalable and creative solutions.

EDUCATION

University College of Engineering ,Tindivanam   2021-2025
BE in Electronics and Communications -7.1/10 CGPA

Carmel HSS ,Nagercoil   2020-2021
12th Grade
Percentage:85%

Carmel HSS ,Nagercoil   2018-2019
10th Grade
Percentage:80%

TECHNICAL SKILLS

Programming languages: Python,C,JavaScript.

Database Technologies:SQL,PL/SQL.

Cloud Platforms:AWS(EC2,S3,IAM,Lambda,Elastic Beanstalk,CloudWatch).

Libraries/Frameworks: Django,Django REST Framework,BeautifulSoup.

Tools/Platforms: Visual Studio,Pycharm,GitHub,Git,Docker,Oracle liveSQL,Figma.

Fundamentals: Object-Oriented Programming(OOP), Database Management System(DBMS),UI/UX Design, Computer Networks(CN),Agile Methodology.

DSA Fundamentals: Arrays,Linked Lists,Stacks,Queues,Sorting,Searching,Recursion,Trees,Time & Space Complexity.

PROJECTS

Sorting Algorithm Visualizer(Source Code)
- Developed a GUI-based sorting visualizer using Python and the Pygame library.
- Implemented Merge Sort using recursive generator functions and yield from to allow real-time step-by-step animation.
- Created an interactive UI with control buttons to toggle sorting direction and regenerate data sets.
- Focused on smooth visual feedback, low-latency updates, and modular code design.

Ecommerce Website(Source Code)
- Developed an eCommerce website using Django, integrating HTML, CSS, and JavaScript for frontend functionality.
- Enabled low latency user experience with efficient RESTful API design.
- Added secure payment integration with PayPal.
- Focused on high availability by ensuring robust error handling and fault tolerance.

Weather App(Source Code)
- Built a Django-based backend with real-time weather API integration.
- Emphasized debugging strategies to ensure consistent performance and latency handling.
- Created a user-friendly UI that delivers responsive forecasts and real-time updates.

CERTIFICATIONS

- Python with Django Projects-**Udemy**
- Python(Basics)-**HackerRank**
- SQL(Basic-Advance)-**Geekster**
- FullStack Development Workshop-**CSMIT**
- Project on HTML CSS-Landing Page Design-**Infosys Springboard**

INTERESTS

| Product Development | Software Development | Full Stack Development | Web Scraping | UI Designing | Competitive Programming | Problem Solving I Debugging |

ACHIEVEMENTS

- Solved a combined 100+ DSA problems across LeetCode,Coding Ninjas and HackerRank.