AMIRTHA VARSHINI E

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EDUCATION

DIPLOMA IN PROGRAMMING
Indian Institute Of Technology MADRAS.
CGPA : 9/10 | Year : 2024 - 2025

BACHELOR OF COMMERCE
JUSTICE BASHEER AHMED SAYEED COLLEGE FOR WOMEN.
CGPA : 7.6/10 | Year : 2018 - 2021

HSC
TST Rajah Girls' Matriculation Higher Secondary School.
PERCENTAGE : 79.4 % | Year : 2018

COURSE WORK

GRADUATE
Data Structures

Object Oriented Programming

DBMS

SKILLS

TOOLS
VS Code | GitHub | Figma| Canva | SQL | Vercel | Render

TECHNOLOGIES & FRAMEWORK
Backend: Flask | Node.js | Express.js | NestJS | Redis | SQLAlchemy | PostgreSQL | TypeORM

Frontend: HTML | CSS | Bootstrap | Vue.js | React.js | Next.js | Mantine UI

PROGRAMMING
Advance : Python

Intermediate : Java Script | Java

Basic: C, C++

HOBBIES & INTERESTS

- Electronics & Robotics - Built a gyro-controlled RC car and a reinforcement learning-based line-following robot; exploring drones, go-karts, and PCB design.
- YouTube Content Creation - Previously ran a movie review channel; now focusing on tech and learning-based projects.
- Movies & Series Enthusiast - Enjoy watching films and series across genres for relaxation and inspiration.

ACHIVEMENTS

- Secured a 9.0 CGPA in Diploma in Programming, reflecting strong academic excellence. Demonstrated consistent performance and proficiency in core programming subjects.
- Served as Deputy Head for the event Robo Soccer at IIT Madras, overseeing planning and execution of a robotics competition where student-built autonomous vehicles competed in a soccer-based challenge.

CAREER OBJECTIVE

FULL-STACK DEVELOPER IN PROGRESS

- Transitioning into Full Stack Development with strong analytical and problem-solving skills.
- Passionate about building scalable, user-friendly web applications using modern technologies.
- Skilled in Python, JavaScript, Flask, React, and PostgreSQL, with experience in frontend, backend, and deployment.
- Keen to contribute to innovative projects and continuously learn new technologies in a dynamic environment.
- Dedicated to writing clean, maintainable code and delivering high-quality solutions that create real impact.

WORK EXPERIENCE

VERANDA RACE | Junior Accounts Executive
November 2021 - March 2023 | Chennai, Tamil Nadu 600 035.

- Managed payment processing and franchise disbursements, resolving discrepancies and providing financial insights.
- Automated accounting tasks using Excel macros and scripting, cutting manual effort by 80% and improving workflow efficiency.
- Applied structured problem-solving skills from finance to software development for better logic building and data management.

PROJECTS

JOB PORTAL – FULL-STACK WEB APPLICATION (IN PROGRESS)
TECH STACK: NEXT.JS, MANTINE UI, NESTJS, TYPEORM, POSTGRESQL, RENDER, VERCEL
<u>GITHUB LINK FOR JOB PORTAL</u>

- Designed and developed the job creation page integrated with a live NestJS backend.
- Set up PostgreSQL database with TypeORM entities for job listings and basic validations.
- Deployed backend APIs on Render and connected frontend on Vercel via environment variables.
- Planning to extend into a complete job management system with authentication, search filters, and role-based CRUD operations.

INTERACTIVE QUIZ WEB APPLICATION VERSION 2
<u>GITHUB LINK FOR QUIZ MASTER APP VERSION 2</u>

- Built a full-stack quiz platform using Flask-RESTful, SQLAlchemy, Vue.js, Bootstrap, and Chart.js, featuring role-based access, REST APIs, and timer-based auto-submit.
- Developed a responsive SPA with admin dashboards for quiz management and student portals with real-time scoring, countdowns, and progress charts.
- Streamlined manual quiz processes with a modular, API-first architecture and integrated data visualization for analytics and performance tracking.

INTERACTIVE QUIZ WEB APPLICATION VERSION 1
<u>GITHUB LINK FOR QUIZ MASTER APP</u>

- Developed a web-based quiz system using Flask, JavaScript, HTML, CSS, and Chart.js with features like an admin panel for managing subjects/quizzes, timed quizzes with auto-evaluation, and real-time result visualization.
- Built a responsive, user-friendly interface with dynamic analytics for enhanced exam preparation.