

SOHAIL SHAIK

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OBJECTIVE

To work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different fields, and realize my potential where I get the opportunity for continuous learning.

EDUCATION

Master of Technology in Computer Science and Engineering - National Institute of Technology Karnataka Present
CGPA: **9.18**

Bachelor of Technology in Computer Science and Engineering - Sri Venkateswara University College of Engineering 2019 - 2023
CGPA: **8.32**

Intermediate Education - Sai New Gen Junior College, Velivennu, Rajamandry, Andhra Pradesh 2017 - 2019
CGPA: **10.00**

SSC - Akshara Sree English Medium High School, Adoni, Andhra Pradesh 2016 - 2017
CGPA: **9.50**

SKILLS

Programming Languages	C++, C, Python
Web Technologies	HTML, CSS, JavaScript
Database Management	SQL, Database Systems
Data Structures	Arrays, Linked Lists, Stacks, Queues
Others	OOPS

PROJECT

Crop Prediction Using Soil Properties 2023

- Developed a scalable predictive model using PySpark MLlib to optimize crop selection based on soil properties.
- Designed a Flask-based web app for farmers to access predictions easily.
- Enhanced agricultural decision-making by improving crop yield forecasts.
- Technologies:** PySpark, Flask, Machine Learning [Published Paper](#)

Lane Change Scheduling for Connected and Autonomous Vehicles (CAVs) 2024

- Designed real-time algorithms using Cooperative Adaptive Cruise Control (CACC) to optimize lane changes, reducing travel time and enhancing safety.
- Simulated traffic dynamics in SUMO and implemented real-time control with Python and TraCI.
- Evaluated performance through metrics like scheduling time and safety gaps, completing proof-of-concept with six vehicles on a two-lane road.
- Technologies:** Python, SUMO, TraCI, CACC, Traffic Simulation

Zero Setup IDE: Real-Time, Cloud-Driven Development(ON GOING) 2024

- Objective: Develop a cloud-based IDE platform supporting multiple programming languages and Implement real-time code collaboration features.
- Technologies: Next.js, Typescript, Node.js, CloudFlare(data base), WebSockets, Socket.io, AWS ECS Instance.

INTENSHIP

NextGen @Zetta Bytes

2022

- Developed an interactive website to help users explore core concepts of Data Structures.
- Designed sections for Array, Linked List, Stack, Queue, trees, etc., with problems related to each.

Technologies Used: HTML, CSS, JavaScript.

Access here : [link](#)

CERTIFICATIONS

- Certified Microsoft Technology Associate in Python Programming, Database Fundamentals, HTML, and CSS.
- Coursera certifications in HTML5 and CSS3.