SINAN FIROZ

Software Developer

B.E Computer Science and Engineering Graduate

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PROFESSIONAL SUMMARY

As a recent graduate with a **Bachelor's in Computer Science and Engineering**, I am passionate about building innovative software solutions, enhancing my technical skills, and contributing to meaningful projects. I am seeking a role in a forward-thinking, technology-driven organization where I can apply my knowledge and continue to grow professionally.

EDUCATION

B.E Computer Science and Engineering | P.A College of Engineering, Mangalore | 2021-2025

- **CGPA : 8.06**
- Modules: Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning.
- Final Year Project: Antibiotic Resistance Prediction using XGBoost and Web-based Visualization.

AISSCE (CBSE), Computer Science | Bharatiya Vidya Bhavan, Kannur | 2020-2021

- **Percentage: 84.6%**
- Core Subjects: Physics, Chemistry, Mathematics, Computer Science, English.

AISSE (CBSE), General Studies | Bharatiya Vidya Bhavan, Kannur | 2018-2019

- **Percentage: 93%**
- Core Subjects: Mathematics, Science, English, Social Science.

SKILLS

- Python Programming	- HTML	- Git	- Data Forecasting
- SQL	- CSS	- Power BI	- Critical Thinking
- Excel & VBA	- JavaScript	- Data Analysis	- Problem Solving

TRAININGS & INTERNSHIPS

PySpiders BTM — Bangalore, Karnataka
Python Full Stack Development — June 2025 - Present

- Undergoing hands-on training in Python, SQL, JavaScript, HTML, CSS and JavaScript for full stack development.
- Gaining practical experience in building and deploying web applications.
- Working on real-time mini projects to strengthen problem-solving, debugging, and deployment skills.

PROJECTS

F1 Driver Style Analyzer

- Built a Python & Streamlit app for real-time F1 telemetry data analysis and visualization.
- Engineered a FastF1 data pipeline to process over 100,000 data points per race for detailed analysis.
- Developed an interactive tool providing data-driven insights into F1 driver styles through comparative analytics.

Antibiotic Resistance Analysis System

- Built a full-stack web application using Python, Flask and an XGBoost model to predict microbial antibiotic resistance with a 92% accuracy rate.
- Served the machine learning model via a Flask API, which analyzes patient data to forecast susceptibility across 15 different antibiotics in real-time.
- Designed a responsive user interface with HTML, CSS and JavaScript that visualizes resistance probability and provides clinicians with immediate, data-backed suggestions for alternative treatments.

CERTIFICATIONS

Learn Python, Scrimba	Jul 2025
Programming with JavaScript, Meta(Coursera)	Dec 2024
Connect and Protect:Networks and Network Security, Google(Coursera)	Nov 2024
Foundations of Cybersecurity, Google(Coursera)	Aug 2024