

HARSHITHA KATABATHINA

Bachelors in Electronics and communications engineering

kharshitha800@gmail.com

[LinkedIn](#)

[GitHub](#)

CAREER OBJECTIVE

To obtain a challenging role in Embedded Systems, IoT, and Software Development, where I can apply my skills in C, Python, SQL and Web Technologies. Eager to contribute to innovative projects, strengthen my technical expertise, and support organisational growth.

EDUCATION

Bachelors in Electronics and Communication Engineering	2023-present
DVR & Dr.HS MIC College of Technology	CGPA : 9.06
Diploma in Electronics and Communication Engineering	2020-2023
DVR & Dr.HS MIC College of Technology	CGPA : 9.28
SSC	2019-2020
Ushodaya EM High School	CGPA : 9.85

TECHNICAL SKILLS

Programming Languages : C, Python

Web Development : HTML, CSS, Bootstrap, JavaScript, Django

Cloud & Databases: AWS (S3, Data Engineering), SQL

Tools & Technologies : Arduino IDE, Tinkercad, VHDL, Wokwi , PCB Design, Microsoft Word, Excel, PowerPoint

Soft Skills: Time Management, Effective Communication, Presentation, Leadership, Decision Making, Problem Solving, Multitasking

INDUSTRIAL EXPERIENCE

Industrial Trainee – Dr. Narla Tata Rao Thermal Power Station, Andhra Pradesh Power Generation Corporation Limited (APGENCO), Vijayawada **Jan-June 2023**

- Gained hands-on experience in boiler operations, turbine functioning, and power distribution systems.
- Assisted in control room monitoring, preventive maintenance checks, and equipment inspections.
- Learned and followed safety protocols in large-scale thermal power plant operations.

Intern – Bhagwati Products Ltd, Hyderabad **May-June 2025**

- Worked on PCB manufacturing and Surface Mount Technology (SMT) processes.
- Performed soldering, component assembly, and quality inspection of PCBs.
- Strengthened understanding of electronics manufacturing and testing procedures.

VIRTUAL INTERNSHIPS

AI/ML – Google for Developers **Jul-Sep 2024**

- Learned CNNs, NLP, image classification, and object detection using Python.
- Gained practical exposure to ML algorithms and neural network applications.

AWS Data Engineering – AWS Academy

Oct-Dec 2024

- Worked on AWS S3, database management, and cloud data pipelines.
- Learned cloud-based data storage, retrieval, and processing techniques using SQL.

Embedded System Developer – Microchip

Apr-Jun 2025

- Learned C programming, IoT fundamentals, debugging tools, and embedded communication protocols.
- Gained insights into microcontroller-based system design and testing.

PROJECTS

Automatic Water Pump Switcher using 555 IC Timer

- Designed a hardware-based water pump controller to automate ON/OFF using water level sensing.
- Prevented overflow and reduced wastage with relay-based switching and LED status indicators.

All-in-One Safety Device using Arduino Uno

- Built a multi-hazard monitoring system for fire, smoke/gas, and temperature detection.
- Integrated LCD, LEDs, and buzzer alerts for real-time hazard indication in homes/workplaces.

CERTIFICATIONS

- C Programming – Infosys Springboard, Jul 2025
- HTML & CSS – Coursera, Jul 2025
- Embedded System Developer – Erotech Solutions , Feb–Mar 2025
- AWS Data Engineering – AWS Academy, Dec 2024
- AWS Cloud Foundation – AWS Academy, Nov 2024
- Frontend Web Development – RF Skilling Academy, Nov 2024
- Digital Circuits – NPTEL, Jul–Oct 2024
- SQL Bootcamp – Udemy, Sep 2024
- Python Programming – Open Weaver, Nov 2023

WORKSHOPS

Hands-on Workshop on Robotics

- Developed an Arduino-based robot with IR sensors for obstacle detection and autonomous navigation.

PCB Designing Workshop

- Learned circuit design, PCB etching (ferric chloride), and soldering techniques to build functional circuits.

EXTRACURRICULAR ACTIVITIES

- Volunteered at NSS Blood Donation Camp, Mar 2025
- Secured Certificate in IQ Quest at VVIT College, Dec 2024
- Won 2nd Prize in JAM (Just A Minute) competition, Oct 2024
- Presented ideas at College Idea Presentation Event, Oct 2024