

# DIVYANI SIROHI

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## OBJECTIVE

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Results-driven Software Engineer with proven expertise in **C++11/14**, **Linux**, and modern development practices. Skilled in leveraging tools such as **Git** and **Valgrind** to design scalable, high-performance applications and ensure robust memory management. Passionate about solving complex problems and collaborating with agile teams to deliver maintainable and efficient software solutions.

## SKILLS

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| <b>Technical Skills</b> | C, C++, SQL, STL, Git, GDB, Multithreading, Jira, Visual Studio, Linux, Object-Oriented Programming, Memory Management, Valgrind, Qt, QML, Docker, Python, Tkinter, Postman |
| <b>Soft Skills</b>      | Communication, Teamwork, Adaptability, Problem-Solving  |

## EXPERIENCE

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### SOFTWARE ENGINEER INTERN

Jun 2025 – Nov 2025

Scanno System Pvt. Ltd.

Greater Noida, India

*K-Connect HVAC Control Module*

- Designed and developed connectivity features for the **K-Connect HVAC** system, enabling remote cabin temperature control via the **KHRApp** on connected devices.
- Implemented and optimized **C++11/14** modules for HVAC control logic on **Linux**, ensuring seamless integration with in-vehicle systems and improving user experience.
- Working in **Adaptive AUTOSAR** with development of **IP protocol** for inter-ECU communication, writing **unit and function test cases**, and design and development of **ARXML**.
- Converted **Business Requirement Specifications (BRS)** into detailed **Software Requirement Specifications (SRS)**, aligning with industry-standard **SDLC** practices.
- Executed **unit testing**, **integration testing**, and validation of HVAC modules using tools such as **Git** (version control), **Valgrind** (memory debugging), and **Jira** (Agile task tracking).
- Performed defect analysis, bug fixing, and collaborated with cross-functional teams in an **Agile environment** to deliver reliable automotive connectivity software.

### MACHINE LEARNING ENGINEER INTERN

Jan 2025 – May 2025

Avaada Electro Pvt. Ltd.

India

*Solar Energy Forecasting & Automated Data Analysis Pipeline*

- Completed a full-time internship as a **Machine Learning Engineer Intern**, working on **live production-grade projects**.
- Developed a **Solar Energy Forecasting Model** to predict solar module power generation using **past six months of historical data**.
- Implemented **machine learning models (LightGBM)** with extensive feature engineering to improve forecasting accuracy and performance.
- Designed and built an **automated data analysis pipeline** to process large Excel datasets efficiently.
- Developed a **Python Tkinter-based GUI** to import Excel files, convert data into structured **JSON batches**, and validate inputs.

- Implemented a **REST API** to transmit processed data and fetch prediction responses, tested using **Postman**.
- Integrated **robust error handling and logging mechanisms** to ensure fault-tolerant data processing.
- Identified software bugs and collaborated with developers to resolve issues and improve system stability.
- Used tools such as **Python, Tkinter, LightGBM, Visual Studio Code, Git, GitHub, and Postman** throughout the development lifecycle.

## EDUCATION

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**Master of Computer Applications**, Amity University

2023 – 2025

## EXTRA-CURRICULAR ACTIVITIES

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Avid reader of technical literature, passionate about emerging technology trends, and enthusiastic participant in sports and group activities that promote teamwork and resilience.

## PERSONAL DETAILS

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|------------------------|----------------|
| <b>Gender</b>          | Female         |
| <b>Passport Status</b> | Available      |
| <b>Languages Known</b> | English, Hindi |
| <b>Nationality</b>     | Indian         |