

DIVYANI SIROHI

+91 7042235597 ◊ Ghaziabad, India

i.sirohidivyani@gmail.com ◊ GitHub

OBJECTIVE

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

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

EXPERIENCE

SOFTWARE ENGINEER INTERN Scanno System Pvt. Ltd. <i>K-Connect HVAC Control Module</i>	Jun 2025 – Nov 2025 Greater Noida, India
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- 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 Avaada Electro Pvt. Ltd. <i>Solar Energy Forecasting & Automated Data Analysis Pipeline</i>	Jan 2025 – May 2025 India
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- 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

Master of Computer Applications, Amity University

2023 – 2025

EXTRA-CURRICULAR ACTIVITIES

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

Gender	Female
Passport Status	Available
Languages Known	English, Hindi
Nationality	Indian