

SAKSHAM JOSHI

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OBJECTIVE

Along with 4+ years of experience in C and C++, I have deep knowledge about inner working of computers, compilers, programming languages, and operating systems. While working on projects, I focus on maintaining the simplicity and optimization of the code base.

EXPERIENCE

Software Engineer Intern at Unite Wings Educational Confederation May 2025 - November, 2025

- Developed an automated certificate verification API using FastAPI in Python and deployed on Vercel (<https://uw-certify.vercel.app>) reducing hours of manual verification effort.
- Designed a Python script to generate JSON data and integrated it with a GitHub Actions YAML workflow to automatically push updates to the public repo, significantly improving productivity and eliminating manual work.

PROJECTS

SRON (Saksham Rapid Object Notation)

- A high-level, single-threaded, dynamically typed, functional and compiled + interpreted programming language.
- The compiler converts the source code to byte-code and saves it in a '.srb' file.
- Further, the interpreter loads the byte-code file and starts its execution.
- Released 5 versions till July 2025. Latest version is 2.2.
- Version 2.1 and older are developed in C++11 using GCC compiler and version 2.2 in C++23 using Clang compiler.
- Provides extremely fast execution speed surpassing even Python, Java, C# and JavaScript in several cases.
- Has a platform-independent architecture.
- **Link:** [Source Code](#) — [Documentation](#) — [Download](#)

SKILLS

Technical Skills	Linux, Shell Scripting, GCC, Clang, C, C++, Data Structures, Debugging, Optimization.
Soft Skills	Project Planning, Attention to detail, Team Leadership, Project Management, Research.

EDUCATION

Master's in Computer Application, Graphic Era University, Dehradun. 2025 - 2027
Coursework: Advance Operating System, Data Structures, Cloud Computing, Computer Network.

Bachelor's in Computer Application, Graphic Era Hill University, Bhimtal. 2021 - 2024
Coursework: Computer Fundamentals, Programming languages, Software Development.

EXTRA-CURRICULAR ACTIVITIES

- Won a C++ Competition organized by WeCode Club in the university. View Results from [here](#).
- Achieved #1 in another C++ Competition with more than 100 participants. View Certificate from [here](#).