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 and deployed an automated certificate verification RESTful API using FastAPI (Python) on Vercel reducing hours of manual verification effort by implementing a Cross-Repository GitHub Workflow to automate data synchronization between private and public repositories. [Check It Out]
- Built and deployed the Unite Wings official website using Next.js, hosted on Vercel with a custom domain ([unitewings.com]), after configuring Hostinger DNS to Vercel Nameservers.
- Designed and developed a responsive frontend for MyUtsav(NGO) using HTML, CSS, JavaScript and jQuery, and deployed it on Hostinger for public access. [Visit here].

PROJECTS

SRON (Saksham Rapid Object Notation)

- A high-level, single-threaded, dynamically typed, functional and compiled + interpreted programming language.
- Compiler (C++11/C++23) converts source code to optimized bytecode (.srb) executed by a custom interpreter..
- Achieved exceptional execution speed, outperforming Python, Java, C#, and JavaScript in several benchmarks.
- Released six versions (latest: v2.3, Nov 2025) providing cross platform execution for both Windows and Linux.
- Built using C++ (GCC & Clang) with continuous optimization for performance and reliability.
- **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].