SAKSHAM JOSHI

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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. [Verify Certificate](#).

- 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)

- Designed and developed a high-performance, cross-platform programming language with 90+ built-in functions and 101 keywords, achieving execution speeds faster than Python, Java, C#, and JavaScript in multiple benchmarks.

- Engineered compiler and interpreter from scratch using C++ (GCC & Clang) with C header implementations, incorporating automatic garbage collection and dynamic memory management.

- Released 6 stable versions (latest: v2.3, Jan 2026) with cross-platform compatibility for Windows and Linux, ensuring consistent behavior across operating systems.

- Implemented file I/O operations, comprehensive error handling, and platform-independent bytecode execution system for seamless deployment.

- Created extensive technical documentation with 20+ sample programs and tutorials, making the language accessible to developers of all skill levels.

- **Link:** [Source Code](#) — [Documentation](#) — [Download](#)

SKILLS

Technical Skills	Linux, C, C++, Python, JavaScript, Data Structures, Debugging, Optimization
Soft Skills	Project Planning, Attention to detail, Agile, Testing, 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](#).