

# VISHWAJEET SINGH

Roorkee, Uttarakhand

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## Education

### Graphic Era Hill University

Bachelor of Technology - CSE

Sep. 2022 – June 2026

Dehradun, Uttarakhand

### Sheffield International School

12th PCM

March 2021 – March 2022

Roorkee, Uttarakhand

### Shemford School

10th

March 2019 – March 2020

Roorkee, Uttarakhand

## Technical Skills

**Languages:** C, C++, Python, Java, HTML, CSS, JavaScript, PHP

**Developer Tools:** Git, GitHub, WordPress, Jupyter, Flask, Tkinter, QEMU, NASM, GCC

**Database/Frameworks:** Node.js, Express.js, MongoDB, MySQL

**Operating Systems:** Windows, macOS, Linux

## Projects

### Mini Operating System / C++, Assembly

June 2025

- Engineered a custom 32-bit operating system in C and x86 Assembly, developing a robust bootloader, efficient memory management unit, and preemptive process scheduler.
- Utilized NASM, GCC, and QEMU to implement foundational OS components, demonstrating deep understanding of low-level system design.

### Python Code Editor / Python, Compiler

June 2025

- Developed a feature-rich GUI Python Code Editor using Tkinter, implementing real-time syntax highlighting, direct code execution, and customizable dark/light themes.
- Integrated comprehensive error handling to enhance developer productivity and user experience.

### News Chatbot / Machine Learning

January 2024

- Designed and implemented a real-time AI News Chatbot leveraging Python, TensorFlow, and Natural Language Processing (NLP) for dynamic content retrieval.
- Built with Flask to provide efficient API integration and seamless deployment, delivering instant news updates to users.

### Dublin Travel Website / Full stack

April 2024

- Constructed a dynamic travel guide website for Dublin using HTML, CSS, JavaScript, Node.js, and MongoDB.
- Enabled seamless user interaction and efficient data management for itinerary planning and destination exploration.

### Resume Builder Web App / Full stack

March 2024

- Designed and developed a responsive resume builder using HTML, CSS, JavaScript, Node.js, and MongoDB.
- Enabled users to create, preview, and download professional resumes through an interactive and user-friendly interface.

## Relevant Coursework

- Data Structures
- Database Management
- Artificial Intelligence
- Machine Learning
- Automata
- Operating Systems

## Leadership / Extracurricular

### NSS Cleanliness Drive

Volunteer

Graphic Era Hill University

- Demonstrated commitment to community service and teamwork.

### Resourceful Travel Planner

Planner

- Successfully managed logistics and budgets for independent travel, highlighting planning and problem-solving abilities.