

# Shubham Sharma

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## EDUCATION

### VELLORE INSTITUTE OF TECHNOLOGY (MAIN CAMPUS)

B.Tech in Electronics and Communication Engineering Grad: 2025  
| CGPA: 8.6

### Shiva International School

PCM with Computer Science  
Grad: 2021 | 12th: 94.6/100 Grad:  
2019 | 10th: 90.8/100

## PROFILELINKS

- [GitHub:// @aerossizzorz](#)
- [LinkedIn:// @ShubhamSharma](#) • [Portfolio:// @ShubhamSharma](#)

## SKILLS

### PROGRAMMING

Languages: • C++ • JavaScript • HTML • CSS

Tools and Technologies: • Git • GitHub • Replit • VS Code • Blender

Framework and Libraries: • React JS • Tailwind CSS • Node JS

Databases: • MongoDB

Familiar With:

• Verilog • Java • MATLAB • Next JS • R • Postman • VHDL • Assembly

### OTHERS

• Chess • 3D Animation • Game Development • Music

## EXPERIENCE

### LRDE DRDO, Bengaluru [Link](#) | Project Intern

Sept - Oct | 2023

- Implemented Systolic Array Algorithm for Matrix Multiplication on Intel Agilex FPGA using Verilog HDL.
- Proficiently utilized Intel Quartus Prime and Intel Questa, showcasing adaptability and problem-solving skills.

### OctaNet [Link](#) | Web Development Intern

July - August | 2023

- As a web developer intern at OctaNet, I worked on a range of projects such as making Portals, APIs and Management systems using Full Stack Technologies.
- Completed 4 projects and was awarded with certificate of appreciation.

### Hack4Impact| HACKATHON [Link](#) | Second Prize

June 6-8 | 2023

- Led Team "ByteMe" in developing "Study Buddy," a collaborative study platform using React.js, earning second prize in the Hack4Impact Hackathon.
- Demonstrated proficiency in React.js, teamwork, and innovation to address educational challenges through technology.

## PROJECTS

### Segmentify [Link](#) | MATLAB | Advanced Preprocessing Techniques

- Designed and implemented an Image Segmentation Algorithm in MATLAB, employing advanced preprocessing techniques for accurate segmentation.
- Demonstrated algorithmic precision through meticulous image manipulation and thresholding methods, showcasing practical applications in receipt detection and serving as an educational resource for MATLAB based image processing.

### TerraTrack [Link](#) | MATLAB | OpenCV | ACF

- Developed a cutting-edge computer vision solution for wildlife conservation and ecological research, excelling in data labelling, ACF based object detection, noise filtering, and accurate turtle tracking in videos.
- Leveraged Python and MATLAB with tools like OpenCV and MathWorks MATLAB, showcasing proficiency in machine learning techniques, specifically Aggregate Channel Features (ACF).

### SkyInsight [Link](#) | HTML | JavaScript | CSS | Weather API

- Crafted a user-friendly meteorological application using HTML, CSS, and JavaScript, integrating a weather API for precise forecasts. Key features encompass temperature trends, precipitation probabilities, and wind speed indicators, with a responsive layout for optimal cross device usability.