

# MUGESH SELVARAJ

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## EDUCATION

### KONGU ENGINEERING COLLEGE

2022 - 2026

Bachelor of Engineering in Computer Science

CGPA : **8.07** (End of 5th Semester)

### SREE SARAVANA NIKETAN MATRIC HR SEC SCHOOL

2018 - 2022

Senior Secondary Education : **84.60 %**

Higher Secondary Education: **89.83 %**

## WORK EXPERIENCE

### CLIMETAVERSE

SEPT 2024 - DEC 2024

3D Modeler & VR Developer | Intern - Remote

- Created high-quality 3D models of a bottling plant using Blender.
- Designed and developed immersive VR environments with interactive mechanics using Unreal Engine 5.

## PROJECTS

### ECOMAP : BIPV ASSESSMENT

DEC 2024

Unreal Engine 5 | Cesium | QGIS

- A cross-platform application for assessing and visualizing Building Integrated Photovoltaics (BIPV) on a large scale.
- Integrates 3D city models, real-time solar data, and interactive tools to enhance urban photovoltaic planning.

### MyAUTH - Authentication System

APR 2025

MERN | JWT Token | Tailwind CSS

- Built a secure auth system with register, login, logout and OTP-based email verification and password reset.
- Used JWT for credential hashing, Nodemailer for emails, and Toastify for real-time notifications.

### KEC Comfort Inn

APR 2024

MERN | Unreal Engine 5 | Blender

- Developed a guest house booking website with an admin panel for efficient reservation tracking and management.
- Designed and built a VR simulation of the college guest house in Unreal Engine to provide an immersive virtual tour experience.

### Virtual Reality CSD Department

MAY 2024

Unreal Engine 5 | Blender

- Modelled the entire Computer Science and Design(CSD) Department in Blender and added the VR Mechanics using the unreal engine 5.

### WiGO - Indian Heritage VR Experience

MAR 2025

Unreal Engine 5 | Blender | Canva

- Designed and Developed a VR application in Unreal Engine 5 that offers an interactive and immersive way to explore India's cultural landmarks.
- Implemented voice-over narration, enhancing immersion and educational engagement.

## TECHNICAL SKILLS

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- **Programming Languages:** C, Java, JavaScript
- **Front-End Development:** HTML, CSS, React.js, Tailwind CSS
- **Back-End Development:** Node.js, Express.js
- **Database:** MySQL, MongoDB
- **Tools:** Git, GitHub, Render, Figma, Postman, Blender, Unreal Engine 5

## SOFT SKILLS

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- **Leadership:** Led teams in SIH'24 and Ideathon'24, guiding project development and execution.
- **Time Management & Communication:** Competed in multiple 24-hour hackathons, effectively working under tight deadlines.

## ACHIEVEMENTS

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- **Finalist**, Smart India Hackathon 2024 (Gujarat Technological University)
- **1st Place**, Hacknovate'25 (24-hour Hackathon, KEC)
- **1st Place**, Hacknovate'24 (24-hour Hackathon, KEC)
- **1st Prize**, Renaissance'23 (Paper Presentation, KEC)
- **2nd Prize**, KEC Hackathon'23 (24-hour Hackathon, KEC)
- **2nd Prize** in Renaissance'24 (Web Page Designing, KEC)

## CERTIFICATES

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- **MongoDB** - MongoDB Associate Developer

## AREA OF INTEREST

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- Full Stack Development
- VR Development
- Data Structures
- 3D Modelling & Animation

## LINKS

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[linkedin.com/in/mugeshselvaraj2004/](https://www.linkedin.com/in/mugeshselvaraj2004/)  
[github.com/MugeshS-04](https://github.com/MugeshS-04)  
[leetcode.com/u/Mugesh\\_S](https://leetcode.com/u/Mugesh_S)  
[hackerrank.com/profile/22CSR123\\_Mugesh](https://hackerrank.com/profile/22CSR123_Mugesh)  
[cgtrader.com/designers/mugeshs04](https://cgtrader.com/designers/mugeshs04)