

# Angad Kambli

SOFTWARE ENGINEER

☎ (+91) 9867098198 | ✉ angadkambli@gmail.com | 🏠 angad-k.github.io | 📷 angad-k | 🌐 angad-kambli

## Education

### Indian Institute of Technology, Roorkee

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

- Cumulative Grade Point Average, CGPA : **8.9**

Uttarakhand, India

July. 2019 - May 2023 (Expected)

## Work Experience

### Google Summer of Code - Godot Engine

CONTRIBUTOR

- Implemented the **pseudo-localization** feature in the Godot Engine - a game engine written in **C++**

- Researched upon and added a number of pseudolocalization features found in state of the art applications. Pseudo-localization, as the name suggests, simulates **localization** to ease the **internationalization** flow in multilingual projects.

Remote

June 2021 - August 2021

### Oracle India Pvt. Ltd.

APPLICATIONS ENGINEER INTERN

- Performed **discrepancy analysis** on an existing Subject Line Optimization model and also worked on improving its performance. Work involved the use of **Python** along with packages like **Matplotlib**, **Plotly**, **Pandas** for extracting insights from the data.
- Performed **data analysis** using various plots pertaining to the model performance to gain insights regarding the model's shortcomings.
- Successfully improved the model's performance by researching and implementing some alternative algorithms and tweaking the existing algorithms.

Hyderabad (Remote)

18 May 2022 - 12 July 2022

## Projects

### Rootex

SDSLABS, IIT ROORKEE

- Rootex is a 3D game engine written in **C++**, based on a **semi-ECS** (Entity Component System) architecture developed by SDSLabs.
- Designed and implemented a content browser that enables browsing assets without affecting the engine's average frame-rate of **50 FPS**.
- Also implemented a dialogue system in **Lua** and worked upon making the cameras and their movements flexible.

IIT Roorkee

May 2020 - Present

### Outrun Chase

SDSLABS, IIT ROORKEE

- Outrun Chase is a 3D multiplayer racing/shooting game made in **Godot Engine**
- Implemented major game-play mechanics and user interface by working closely with designers, modified the multiplayer code to support a minimal **NodeJS** server-based multiplayer and improved the **LAN-based multiplayer** flow to make matchmaking more user-friendly and intuitive.
- The game was featured in the July 2021 edition of [GodotCon](#).

IIT Roorkee

August 2020 - Present

### ProcSDF

B.TECH THESIS PROJECT

- ProcSDF is a **node-based 3D modelling tool** that enables users to create 3D scenes in a completely procedural manner.
- It uses an **SDF based raymarching** approach to render the scenes. **OpenGL** is used to set up the rendering loop and most of the rendering code lies in the fragment shader. Behind the scenes, it generates the fragment shader automatically based on the node graph.
- Designed the architecture of the application, along with the rendering flow and implemented a number of initial systems and structures.

IIT Roorkee

May 2022 - Present

### Quizio

SDSLABS

- Quizio is SDSLabs' in-house testing platform built on the **MERN** stack. It uses **ReactJS** on the frontend and **NodeJS** on the backend.
- Iterated upon and implemented major frontend flows like Quiz attempting and checking along with fixing miscellaneous bugs on both codebases.
- Successfully implemented all required flows on a tight schedule in preparation for the SDSLabs' recruitment test.

IIT Roorkee

January 2022 - April 2022

## Achievements

2020 **2nd Position**, Game Development Category in [National Level Hackathon 59 Atmanirbhar Bharat\(India\)](#)

## Skills

### PROGRAMMING LANGUAGES

C++ · JavaScript · Rust · Dart · Python · HTML · CSS · PHP

### SOFTWARE PACKAGES AND FRAMEWORKS

ReactJS · NodeJS · Pandas · Plotly · Matplotlib · Blender · Flutter · Godot · Visual Studio · Git · Linux · GitHub

## Extracurricular Activity

### SDSLabs

DEVELOPER

- SDSLabs is a **campus technical group** comprising of developers and designer who work on various projects pertaining to the campus and outside.
- Mentored **15+** freshers in events like Winter Of Code and organized lectures, hackathons and other events with participation of **200+** students along with **maintaining**, **developing** and **testing** a number of projects and providing mentorship to juniors who work on them.

IIT Roorkee

January 2020 - Present

### Kshitij - The Literary Magazine

MEMBER (ENGLISH EDITORIAL)

- Kshitij is the **campus literature group** that is also involved in regularly publishing a magazine of the same name.
- As a member of Kshitij, I have organized and taken part in poetry events, lectures and workshops pertaining to literature.

IIT Roorkee

August 2019 - Present