

Rishit Singh

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Education

Shalom Hills International School

HIGH SCHOOL DIPLOMA IN SCIENCE

GPA: 3.2

Gurugram, India

April 2017 – August 2021

Langara College

ASSOCIATES OF SCIENCE IN COMPUTER SCIENCE

GPA: 3.6

Vancouver BC

Jan 2023 – Jan 2025

Experience

Textualization Software

SOFTWARE ENGINEER

- Worked on optimizing CLucene, a C++ based search engine.

Vancouver BC

July 2023 – Present

Enablesoft ERP

SOFTWARE ENGINEER

- Made a web based AR engine from scratch using WebXR for previewing products from an e-commerce website.
- Made a C# based service to dynamically generate mappable textures of rugs their images on the website.
- Automated 3D model generation with the Blender API
- Wrote ERP services in C#

Gurugram, India

October 2021 – June 2023

Skills

Programming:

C++, C#, Java, Kotlin, Python, Go, JavaScript

Graphics APIs and Game Engines:

OpenGL, SDL, Vulkan, Unity, Godot, Three.js, WebGL

Dev Ops:

Bash/Linux, Docker, Docker-Compose

Web Backend:

ASP.NET Core, Django

Web Frontend:

HTML/CSS, React

Math:

Linear algebra, Calculus, Statistics

Projects

CacoEngine

SDL BASED GAME ENGINE WRITTEN IN C++

C++, SDL

<https://github.com/rishit-singh/CacoEngine>

GLEngine

OPENGL BASED GRAPHICS ENGINE WRITTEN IN C++

C++, OpenGL

<https://github.com/rishit-singh/GLEngine>

WebAR-Abstraction

A WEB BASED GENERAL PURPOSE AR ENGINE.

TypeScript, WebXR, Three.js

<https://github.com/rishit-singh/WebAR-Abstraction>

RugTextureGenerator

A C# BASED SERVICE TO DYNAMICALLY GENERATE MAPPABLE TEXTURES FROM IMAGES OF RUGS.

C#, OpenCV

<https://github.com/Enablesoft-ERP/RugTextureGenerator>

RugViewAR-MeshGen

BLENDER SCRIPTS TO GENERATE 3D MODELS FOR RUGS.

Python, Blender API

<https://github.com/Enablesoft-ERP/RugViewAR-MeshGen>

OpenDatabaseAPI

API FOR CREATING AND MAINTAINING SQL BASED DATABASE PROGRAMMATICALLY.

C#

<https://github.com/rishit-singh/OpenDatabaseAPI>

SharpSession

A C# BASED WEB SESSION MANAGER

C#

<https://github.com/rishit-singh/SharpSession>

CourseView

A WEB FRONTEND WITH SEARCH QUERIES FOR A FAST DATABASE CONTAINING INFO ABOUT ALL COURSES OFFERED AT LANGARA IN UPCOMING AND PREVIOUS TERMS.

C#, Blazor.NET, PostGRESQL

<https://github.com/langaracpsc/CourseView>

KeyMan

A GENERAL PURPOSE API KEY MANAGER.

C#

<https://github.com/rishit-singh/KeyMan>

langaracpsc-next

WEBSITE FOR LANGARA CS CLUB.

Typescript, Next.js

<https://langaracs.tech>

peregrine-gpt

A PROMPT TUNED GPT BASED CHATBOT FOR LANGARA CS CLUB.

Python, OpenAI API

<https://github.com/langaracpsc/peregrine-gpt>