

Sooraj Sunil Nair

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TECHNICAL SKILLS

- **Languages:** Python, Java, C/C++, JavaScript/TypeScript, HTML, CSS
- **Database:** MySQL, SQLite, MongoDB
- **Platforms:** Unreal Engine, Blender, Jupyter Notebooks
- **Frameworks:** Node.js, Next.js(React), FastAPI(Rust), SFML, LangChain
- **Operating Systems:** Windows, MacOS, Linux

KEY COMPETENCIES

Analytical skills
Teamwork
Problem-Solving
Self-motivated
Critical thinking skills

RELEVANT PROJECTS

Video Game UX Design

Enhanced the 3D zombie shooting game's user experience by designing and implementing its user interface and visual effects in Unreal Engine.

Procedural Content Generation

Python-based project to develop a Minecraft settlement generator using different AI algorithms for the Generative Design in Minecraft Competition (GDMC).

Eclipse of the Swarmlings

The horror/survival video 2D-platformer game. Made custom game engine with C++ and SFML library. Included features like shaders, physics, pathfinding, ray-casting and parallax.

EXPERIENCE

Software Developer Research Assistant

May 2024 - Current

Visual and Analytic Computing (VAC) Lab, St. John's, NL

I am engaged in pioneering work to advance the understanding of atmospheric dynamics through visual computing techniques. My primary responsibility involves constructing global wind data into a 3D holographic environment using Unreal Engine and C++. This project is designed to analyze the impact of varying wind conditions on flight trajectories, offering insights that can improve aviation safety and efficiency.

Customer Service Supervisor

Oct 2021 - June 2024

Dominion, Loblaw Co. Ltd., St. John's, NL

I was dedicated to addressing customer inquiries and resolving issues efficiently, ensuring a positive shopping experience. I consistently maintained a clean and organized work area, contributing to a welcoming environment. Helped front-end associate concerns and provide guidance as required. Oversees purchase, return and exchange transactions and verifying processes to meet Company guidelines.

Python Developer Intern

May 2023 - Aug 2023

Algorithma, Kochi, Kerala, India

I was part for developing, testing, and maintaining Python-based software applications and components. During this four-month on-site internship, I collaborated with cross-functional teams, learning best practices for writing clean and testable code, and participating in the full software development lifecycle. I worked primarily with the FastAPI framework to build efficient and scalable backend systems. This internship provided me an excellent opportunity to enhance your Python skills, understand RESTful API development, and contribute to real-world projects in a dynamic and collaborative environment.

EDUCATION

Bachelor of Science (Honours): Computer Science

Sep 2020 - Dec 2024

Memorial University of Newfoundland, St. John's, NL