

# Visruth Thayyil Vijind

+91 6235510083 | [cb.sc.u4cse24557@cb.students.amrita.edu](mailto:cb.sc.u4cse24557@cb.students.amrita.edu) | [linkedin.com/in/visruthv](https://linkedin.com/in/visruthv) | [github.com/bepvis](https://github.com/bepvis)

## EDUCATION

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**Amrita Vishwa Vidyapeetham**

*Bachelor of Technology in Computer Science, Minor in Automation in Robotics*

Coimbatore, India

Aug. 2024 – Present

## TECHNICAL SKILLS

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**Languages:** C/C++, Zig, Rust, Java, Python, Go, JavaScript, HTML/CSS

**Frameworks:** React, NextJS, Electron

**Developer Tools:** Git, Neovim, Make, Figma, Godot, Linux

**Libraries:** Raylib, pygame

## EXPERIENCE

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**Live-in-Labs<sup>®</sup>**

May 2025 – Aug 2025

*Student Researcher*

*Coimbatore, India*

- Collaborated with a multidisciplinary team to conduct extensive field research in coastal Tamil Nadu, focusing on water accessibility challenges.
- Performed quantitative and qualitative data collection through community interviews and onsite measurements to identify resource gaps.
- Synthesized field observations and raw data into a comprehensive research paper, proposing evidence-based solutions for the community.

## PROJECTS

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**CropChaos** | *C, Raylib, Makefile*

July 2024 – Present

- Architecting a 2D game engine from scratch using pure C to master low-level memory management.
- Designing a custom Entity Component System (ECS) to decouple data from logic and optimize cache locality.
- Established a modular project structure using Makefiles to manage compilation stages and dependencies without heavy IDE overhead.
- Integrated Raylib for rendering while manually implementing core game loops and state management.

**Shelly** | *Go, React, WebSockets, Xterm JS, PTY*

July 2024 – Present

- Developed a web-based remote shell application enabling SSH-like access via standard HTTP protocols.
- Engineered a high-performance backend in Go, utilizing Goroutines to handle concurrent user sessions efficiently.
- Implemented bi-directional communication using WebSockets to ensure low-latency, real-time command execution.
- Built a responsive terminal UI in React to render shell output and capture user input seamlessly.

**PyDungeon** | *Python*

Sep 2022 – Dec 2023

- Developed a text-based RPG dungeon crawler relying solely on the Python Standard Library to strictly test core language proficiency.
- Utilized Object-Oriented Programming (OOP) principles to design scalable classes for player inventory, enemies, and world generation.
- Implemented complex game logic, including turn-based combat systems and random event generation.
- Focused on writing clean, idiomatic Python code to ensure readability and maintainability.