Pratik Hadawale

✉ pratikhadawale1188@gmail.com 📞 8433766935

💼 PROFESSIONAL EXPERIENCE

Junior Software Developer, *CAD+T Consulting GmbH*   2023 Oct – present
Coimbatore, India
- **Optimized** 3D simulation **FPS** from **4 to 60**, reduced draw calls by **97%** (21,664 to 745), and decreased loading time from **62.3s to 7.9s** through optimized geometry creation, cached/shared materials.
- **Implemented Path-Tracing** with custom workflow for realistic rendering, including integration in Webpack / Vite for build. This implementation also lead to gain funding for the project
- **Developed** machining operations enabling cut-outs (e.g., CNC machines) and "mitter joint" functionality using **CSG**.
- **Implemented** dynamic stadium-like lighting, **HDR/shaders** integration, shadow effects and, enhancing rendering accuracy.
- **Fixed critical** bugs affecting 2D blueprint creation, resulting 3D simulation, mesh / material artifacts, and material rotation for AutoCAD models.
- **Supported** and guided a **cross-functional** team while managing individual deadlines
- **Enhanced** user **interactions** with geometries in 2D/3D environments by adding visual cues and overlay text

Full Stack Web Developer, *AVS Technology*   2019 Sep – 2019 Dec
Navi Mumbai, India

I worked, as a **freelancer**, on various kinds of **logistics and invoice software**, primarily my work was to transform the existing .net platform software to web based platform
- **Converted** c# .net pages from desktop to responsive web pages
- **Developed** database and **stored procedures** for web pages
- **Connected** the front end and the back-end
- **Developed** connection between database and backend

Freelance, *Sona Enterprises*   2019 Jun – 2019 Aug
Navi Mumbai, India

I created a full stack website for a "Paint Roller" company. My work consisted the following:
- **Designed** website in figma and **Created** frontend
- **Developed** Backend Logic for various services
- **Developed** email and mobile messaging service to let owner know when someone contacts through website
- **Set up Domain** and **Hosting** on **Godaddy.com** 🔗
- **Worked** with **APIs** from two different frameworks

📂 PROJECTS

Technical Creative Projects Showcase, *Explore my projects with descriptions and visuals*
https://github.com/irrevocablesake/Portfolio-of-Projects 🔗

Procedural-3D-Maze-Generator
Link: https://github.com/irrevocablesake/Procedural-3D-Maze-Generator/ 🔗
Learnt: Memory management, Implementing algorithms with respect to 3D graphics, API Creation, Optimizations
Info: This is a Procedural 3D Maze Generator, all of the things you see above are created in code. On click of a button you can create new mazes on the fly!

Rubik's Cube Simulator
Link: https:/github.com/irrevocablesake/The-Cyber-Cube 🔗
Learnt: 3D Graphics and application of mathematics / Physics
Info:A simple web based rubik's cube simulator, which allows one to spawn a rubik's cube of any size, scramble it and interact with it using mouse, in order to be able to solve it

SKILLS

3D Graphics Libraries / APIs
Three.js, OpenGL, WebGL, GLSL, SFML, Blender, MagicalVoxel, R3F

Libraries / APIs
React JS, Zustand, Bootstrap, .net, mailchimp, twilio, expressjs, SVN version control, Flask, Jekyll

Languages
Javascript, C++, C, C#, NodeJs, Html, Css, Python

ART STATION

2D & 3D ART
Works: https://www.artstation.com/pratikhadawale_sake
Animation Project: https://www.artstation.com/artwork/6NxeAV

AWARDS

Felicitation with Gift, *CAD+T Solutions GmbH*   2024
- **Mentored professors** on JSReports as part of a company's initiative to bridge gap between university cirriculum and industry standards

Trophy and Certificate, *KBP College*
- Got **trophy** and **certificate** for achieving 1st rank, in the First Year of Degree
- Got **certificate** for achieving 2nd rank, in the Third Year of Degree

EDUCATION

Bachelors of Science in Computer Science, *KBP College*   2019 – 2022
CGPA for six semesters: 9.92 / 10   Navi Mumbai, India
Related Modules: DBMS, Disc Math, DSA, .Net, Web Dev, Comp Networks