Abhay Raj Rathi

SOFTWARE ENGINEER/3D Modeler

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ABOUT ME

Hardworking person. Bringing forth a motivated attitude and a variety of powerful skills. Committed to utilizing my skills to further the mission of a company. I am well-mannered, organized, creative, and goal-oriented. I have a flair for exploring suitable avenues in Computer Science Engineering while developing advanced projects with efficiency and quality.

EDUCATION

Chandigarh University,Mohali
BE in ComputerScienceEngineering
2023 -2027(Expected)

SKILLS

- **Programming:** Python, Java, C++ , React, Script,DSA
- **Frameworks & Tools:** Blender, NumPy, Pandas, Git
- **Soft Skills:** Leadership, Team Collaboration,
- **Design Tools:**Canva,Adobe Photoshop

CERTIFICATIONS

- Advance React (Coursera)
- Data Structures and Algorithms (GeeksforGeeks)
- Blender to Unreal Engine(Coursera)

HOBBIES

- Exploring new Technologies
- Volleyball
- Travelling
- Reading mangas
- Gym

PROFESSIONAL EXPERIENCE

Junior Software Engineer

BrightByte Technologies – Pune, India
May 2024 – July 2024

- Assisted in building scalable backend services using Express.js and PostgreSQL.
- Worked closely with senior developers to debug and enhance key modules in a client-facing application.
- Contributed to version control using Git and participated in agile ceremonies including daily standups and sprint planning.
- Wrote unit and integration tests, increasing test coverage from 45% to 80%.
- Actively documented technical processes, improving onboarding speed for new team members.

3D Artist & Blende Specialist

PixelForge Studios – Bengaluru, India
Jan 2025 – feb 2025

- Designed and optimized high-poly and low-poly 3D models for use in games and real-time rendering environments using Blender.
- Created detailed texture maps (diffuse, normal, roughness) using Substance Painter and integrated them into game engines (Unity, Unreal Engine).
- Developed 3D assets for AR/VR projects, ensuring low memory footprint without compromising visual fidelity.
- Collaborated with animators and developers to ensure seamless rigging and export workflows for character models.
- Led the asset pipeline optimization project, reducing scene file size by 45% while improving render speeds.

PROJECTS

PASSWORD MANAGER AND GENERATOR :

Built a secure password manager and generator using Python. Features include password encryption, storage, and strong random password generation with a user-friendly interface

3D SPACE EXPLORATION PROJECT

Created a realistic 3D space exploration app with high-definition models of celestial bodies, allowing free navigation of the Milky Way using interactive controls. Built with React, Node.js, Blender etc.

Weather Forecast Web App

HTML, CSS, JavaScript, OpenWeatherMap API
Built a responsive web app to display real-time weather data by city using OpenWeatherMap API. Features include temperature, weather conditions, and error handling for invalid inputs

Personal Portfolio Website

Developed a responsive portfolio website to showcase projects, skills, and resume using HTML, CSS, JavaScript, and React. Highlights UI/UX design and frontend development proficiency.