

Raviraja

WEB APP DEVELOPER

CONTACT

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PROFILE SUMMARY

Experienced software developer with 3.4+ years specializing in web and VR application development. Proficient in **ReactJS**, **Babylon.js**, and **Python**, with a strong background in front-end and good exposure in back-end technologies. Skilled in creating engaging **Immersive experiences** and delivering robust, scalable web applications. Proven **leadership** in managing teams and driving **feature development** in collaborative environments

EDUCATION

2014-2018

RAMCO INSTITUTE OF
TECHNOLOGY

- Bachelor of Electrical and Electronics Engineering
- GPA: 7.99/ 10

WORK EXPERIENCE

Brahmarsive INC

2023 - PRESENT

Senior Software Engineer

- Developed a custom **Colyseus** server for real-time multi-user collaboration in VR anatomy experiences, supporting synchronized **dissection and skin reflection**.
- Built a dynamic **Menu Navigation** system with state management blocks, allowing users to skip, revisit, or jump to specific steps while maintaining accurate action flow
- Led the development and implementation of **15+ VR Anatomy experiences**, including the Abdomen and Upper Limb, specifically designed for medical students.
- Developed and integrated over **65%** of the required **features** for **Anatomy** and other **educational experiences**, while also leading the feature development team.
- Conceptualized and implemented a **node-based editor** using **React Flow**, streamlining the experience creation process and reducing development time from over **5 days to just 1.5 to 2 days**.
- Built **dynamic experience controls** including loops and conditions, allowing the engine to execute actions based on specified conditions, adding flexibility and **interactivity** to the experience.
- Optimized **asset loading** and implemented various **performance enhancements**, reducing experience load times from over **25 seconds to approximately 8 seconds**.

Nallas Corporation

2021 - 2023

Associate Software Engineer

- Implemented an **L2 cache system** using the **Cacheout** Python library in conjunction with Redis, achieving a **70% reduction** in API response time.
- Developed and integrated a **monitoring system** within the 3D scene, providing a debug layer to efficiently identify and address performance bottlenecks.
- Revamped back-end services by introducing **decorators** and **asynchronous operations**, resulting in a **30% performance improvement** while enhancing code readability and overall quality.

SKILLS

- React JS, Redux
- Type Script, Java Script, SASS
- Babylon JS, Web XR
- Colyseus
- REST APIs
- Web Pack, Vite
- GIT
- Python, Azure Functions
- SQL, MongoDB
- Critical Thinking, Leadership

PROJECTS

- [Portfolio](#)
- [3D Model Viewer](#)

ACHIEVEMENTS

- Won Annual awards for **Two** consecutive times for best performance
- Won Spot Award for **6 times** and nominated for **10 times**