Madhan M

ReactJS Developer

✉ contact@madhanmurali.com | 🏠 www.madhanmurali.com | in madhan-murali

"Frontend Developer with experience in building complex web applications, specializing in 2D animation and the development of browser-based video editors."

Experience

Animmaker Inc.   *Chennai, India*
ReactJS Developer   *Sep. 2021 - Jun. 2025*

- Contributed to the **initial development of the VMakerAI video editor webapp**, including key components such as the Timeline, Scene Workspace, Toolbar, Settings windows, and video project preview functionality. Improved performance and user experience by optimizing Timeline-related workloads using Web Workers for smoother editing.
- Implemented video/audio buffering logic using Service Workers and IndexedDB, **enabling seamless playback across three video editor platforms (Animaker, VmakerAI, and SteveAI)** without relying on HLS streaming. This solution significantly **reduced video storage and processing costs.**
- Designed and implemented Python scripts to import PowerPoint presentations into video editing and presentation applications, including the extraction of text, shapes, and graphics. **Enhanced backend performance by optimizing parallel processing of PowerPoint files using Celery.**
- Developed a POC for **generating proxy (low-resolution) videos from PPT files using FFmpeg**, without relying on third-party services such as AWS.
- Implemented music visualization as an animatable asset and developed a C++-based visualizer for video rendering **without affecting the delivery time of rendered videos.**
- Worked on **math-intensive components such as 2D animation and Transform Manager**, including features like resize handles similar to those in PowerPoint.
- Collaborated with the in-house AI team and designers to implement **AI-based lip-sync for character animations.** Developed a custom tool for designers to export character lip SVGs for AI-driven animation.
- Revamped major parts of the UI of "Animaker Deck" (presentation application).
- Received the **"Rising Star" award** in 2022 in recognition of outstanding performance.

Azacus Techno Solutions   *Chennai, India*
Web Developer – Intern   *Apr. 2020 - Oct. 2020*

- Maintained a Symfony (PHP)-based web application for a Poland-based hospital and developed an exam portal for a college in Bangalore.

Skills

Programming	Javascript, HTML, CSS, Python, C++ (basic)
Technologies	ReactJS, GSAP (JS Animation Library), Immer, TailwindCSS, ImmutableJS, Styled Components, Redux, LXML (Python HTML parser), Puppeteer (basic), Eigen (C++ matrix library - basic)
Languages	English, Tamil

Education

St. Peters Institute of Higher Education and Research   *Chennai, India*
BACHELOR OF COMPUTER APPLICATIONS   *Mar 2018 - Mar 2021*