
Andrey Mazépas

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Summary

Software Engineer with 10+ years of experience specializing in React, TypeScript, and Three.js. Proven track record in developing high-performance web applications and 3D visualization tools for robotics. Skilled in both frontend and backend technologies, with a passion for creating engaging user experiences and optimizing application performance. Adaptable team player with a strong drive for continuous learning and innovation in software development.

Experience

Formant, Inc

Software Engineer • Mill Valley, CA

10/2022 - Present

- Developed and maintained an open-source 3D visualization tool for robotics (ROS) data using Three.js, React Three Fiber, and React. The tool features: Fully customizable data stream displays in separate layers with extensive options
High-performance parser for 3D marker objects, enabling efficient visualization of robot data and environment
Optimized for real-time data streaming while maintaining high FPS
- Overcame significant optimization challenges to ensure smooth visualization of continuous incoming data streams
- Created advanced data visualization tools for the main application, including: A complex video player that encodes multiple image files into video in runtime, managing preload, performance, and time accuracy
A separate video player utilizing short video files to compose a stream
- Solely responsible for maintaining, deploying, and improving the 3D visualization project, ensuring its continued effectiveness and efficiency

Divinia

Software Engineer • San Francisco, CA

11/2021 - 10/2022

- Led the development of 3 high-traffic websites using React and Next.js, optimizing for SEO and user experience, while leveraging Kotlin on the backend to enhance functionality and performance.
- Conducted comprehensive research and collaborated cross-functionally to design, implement, and manage Divinia's suite of web applications, contributing significantly to the company's digital presence and success.

RunaHR

Software Engineer • Mexico City

08/2021 - 11/2021

- Worked as a frontend developer, using React, on a short-term contract for a large application that manages employee payrolls in Mexico.

Zenvia

Frontend Developer • Sao Paulo, SP

01/2021 - 08/2021

- Developed frontend for three main web applications using React, with focus on real-time chat and user management.
- Assisted in backend development using Ruby on Rails and Elixir.
- Worked on an embeddable widget using vanilla Javascript, which required me to focus on performance and data management using local storage and query parameters. This project helped me develop a stronger understanding of the intricacies of front-end web development.

- Developed a performant voice recording component, which involved encoding and compressing the audio stream manually.

Ewave / Banco do Brasil

Frontend Developer • Brasilia, DF

10/2019 - 01/2021

- Collaborated with Brazil's largest bank, Banco do Brasil, as a contractor and contributed to the development of a new charting tool in AngularJS for an internal platform. Also, created new pages to consume data from Java backend, improving the user experience.
- Switched internally to mobile development, where I worked on the bank's app directly using React Native for both Android and iOS platforms. Occasionally, I had to modify the Java backend API to integrate with the app.
- Utilized IBM Jazz for efficient task management, communication, and version control.

Output Sistemas

Web Developer • Brasilia, DF

05/2019 - 10/2019

- Developed and configured the company's landing page using ReactJS, ensuring a responsive and user-friendly design.
- Created a business assets management software from scratch using React within ElectronJS managing both frontend and backend development.
- Analyzed functional and visual requirements of the website and applications, ensuring that all products met or exceeded client expectations.
- Led a team of backend engineers by managing requirements and coordinating with frontend development, ensuring timely completion of all projects

DPU - Universidade de Brasilia

Web Developer • Brasilia, DF

11/2018 - 04/2019

- Developed frontend for two critical systems using React: the Talent Bank system (with Material-UI) for talent tracking and management, and the Intern Management system (with Ant Design) for seamless intern administration.
- Leveraged NodeJS to optimize web application performance and utilized version control tools (SVN, Git) and project management software (Redmine) to ensure efficient development workflows and project tracking.

FINATEC

Web Developer • Brasilia, DF

05/2017 - 05/2018

- Developed a data broadcasting web application for the Brazilian army using Angular on the frontend and Java on the backend. This system was deployed and used by military bases throughout the country.

Skills

Expertise in Javascript, Typescript and React, Interest and experience with WebGL, WebGPU and Three.js, Comprehensive knowledge about browser optimizations

Education

Universidade de Brasília

Computer Science • Brasilia, DF

01/2021

Due to the unprecedented impact of the COVID-19 pandemic, my studies were disrupted and I was unable to complete my degree on my original timeline.