

# Andrey Mazépas

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## Summary

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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

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### Formant, Inc | Mill Valley, CA

#### Software Engineer | 10/2022 - Present

Developed and maintained an open-source 3D visualization tool for robotics (ROS) data using Three.js, React Three Fiber, and React.

- Built fully customizable data stream displays with layered visualization and extensive configuration options.
- Engineered a high-performance parser for 3D marker objects, optimizing real-time robot data and environment visualization.
- Solved complex optimization challenges to maintain high FPS in continuous data streaming.
- Developed advanced visualization tools, including:
  - A runtime video player that encodes multiple images into a seamless video while managing preload, performance, and time accuracy.
  - A second video player that composes a stream from short video files.
- Solely responsible for maintaining, deploying, and improving the project to ensure efficiency and long-term stability.

### Divinia | San Francisco, CA

#### Software Engineer | 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 | Mexico City

#### Software Engineer | 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 | São Paulo, SP

#### Frontend Developer | 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 | Brasília, DF

#### Frontend Developer | 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 | Brasília, DF**

### **Web Developer | 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 | Brasília, DF**

### **Web Developer | 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 | Brasília, DF**

### **Web Developer | 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**

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

## **Education**

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### **Universidade de Brasília | Brasília**

#### **Computer Science | 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.