

## Work experience

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### HP (Instituto Atlântico)

May 2024 – Present

Senior Frontend Typescript Engineer

Remote

#### Worked on platform team, responsible for core frontend framework and cross-team collaboration.

- Optimized Webview + Native React applications, implementing a caching interface for inter-process GraphQL queries, achieving 18x faster performance in production.
- Designed and implemented advanced telemetry infrastructure, collaborating with stakeholders to define PoCs and guide architectural decisions.
- Led a team of 8 senior C++ developers transitioning to TypeScript and React. Delivered performance-focused webinars to 100+ engineers, improving React development practices across teams.

### Dealerlogix

Jan 2020 – May 2024

Full Stack Javascript Engineer

Remote

#### Infrastructure modernization on both frontend and backend, improved tech stack.

- Led React adoption, revitalizing interactive pages with Redux for state management and React Hooks to bridge with legacy ExtJS.
- Replaced Gulp.js with Webpack, Rollup, and Vite, enabling faster builds, hot reloading, and modularization of legacy JS architecture.
- Overhauled layouts for accessibility and responsive UI, leveraging semantic HTML, WebComponents, Observers, and modern CSS techniques.
- Maintained a Node.js & C# backend, integrating with third-party RESTful APIs via Express and managing data with Microsoft SQL Server. Ensured system stability through unit and integration testing with Mocha & Puppeteer, improving test coverage for critical components.

### VerLab

Aug 2019 – Dec 2019

Computer vision and Robotics Researcher

Belo Horizonte

#### Research on Computer Vision technology, integration with robotic systems

- Partnered with Petrobras to research computer vision in Python and C++.

### E.Life

May 2017 – Aug 2019

Fullstack Chatbot Engineer

Remote

#### Full Stack Javascript engineering and conversational interfaces designing.

- Built Node.js (TypeScript) backends with MongoDB, integrating Facebook Webhooks, Google Cloud Services, serverless functions, and REST APIs. Ensured reliability with Jest unit testing.
- Developed complex chatbot UIs using React, Vue, and AngularJS, selecting the best technology per project needs.
- Led the 2018 SuviniL Chatbot project, winning first place in a national marketing excellence award by designing an innovative chatbot UX.

## Education

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### Master in Computer Science

Aug 2019 – Dec 2022

Federal University of Minas Gerais

- Thesis: An Investigation on Deep RL Algorithms for Resource Management and Workload Scheduling.

### Bachelor in Computer Engineering

Jan 2015 – Jul 2019

Federal University of Ceará

- Honors graduate with Summa Cum Laude and Outstanding Computer Science Student national award.

## Relevant Projects

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### Super Hero Effect

Jul 2020 – Aug 2022

An interactive superhero-like illustration effect for the web using SVG filters and masks. [See repo](#)

- Leveraged advanced SVG features such as texture filters and displacement maps to produce in-browser interactive special effects animation.
- Shared technique in a tutorial for the community published at [Codrops](#).

### Lightweight Facial Tracking

Sep 2016 – Apr 2019

Algorithm for facial expressions tracking in low-end devices. [See repo](#)

- Enhanced performance and resource usage of a facial tracking algorithm by 50% with statistical domain reduction techniques such as Principal Component Analysis.
- Improved results on faulty datasets by 20%.
- Received Best Paper Award at the 2018 edition of the ENIAC national Computer Science conference.

### Workout Tracker

Apr 2021 – Jul 2023

Offline-first SPA for fitness tracking and exercise journaling. [See repo](#)

- Designed and built a React SPA styled with Tailwind CSS for workout tracking.
- Architected an offline-first experience with focus on user privacy and no server footprint, leveraging IndexedDB for data storage.

## Publications

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### Machine Learning Tools to Support Academic Mentorship Activities

COBENGE 2018 Conference Proceedings, Salvador BA, Brazil

- Framework to create intelligent support tools for academic mentorship and teaching.

### Facial Landmarks Detection on Faulty Datasets with Regression Trees and Principal Component Analysis Parametrization

ENIAC 2018 Conference Proceedings, São Paulo SP, Brazil

- Study on statistical optimization of facial landmarks tracking algorithms in faulty datasets using regression trees and PCA parametrization.

## Relevant Coursework

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### The Joy of React

May 2024 – Jul 2024

Josh Comeau's Course Platform

- Advanced React and Next.js course covering state of the art techniques for Server Side Rendering, Suspense and Transitions.

## Certifications

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### Graph Developer – Associate

Jul 2024

Apollo Graph Inc. [Link](#)

### Advanced English TOEFL ITP – C1 Level

Jan 2018

ETS (Educational Testing Service)