

# Iago Mendes

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Software Engineer

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## Education

### Oberlin College – Oberlin, OH

Double Major in Computer Science & Physics, Astrophysics Concentration (September 2020 – May 2024)

- GPA: **3.97** / 4.00.
- Relevant Coursework in **CS**: “**Data Structures**” (**Java**), “**Algorithms**”, “Programming Abstractions” (**Racket**), “Systems Programming” (**C**), “Introduction to Computer Architecture” (**Assembly**), and “Algorithms on Strings, Trees, and Sequences”.
- Relevant Coursework in **Physics**: “Multivariable Calculus”, “Differential Equations”, “Mechanics and Relativity”, “Electricity, Magnetism and Thermodynamics”, “Modern Physics”, “Classical Mechanics”, “**Computational Modeling**” (**Python**), and “Astrophysics I: Stars and Planets”.
- Invited to the Science and Technology Research Opportunities for a New Generation (STRONG) program.

## Work Experience

### Oberlin College – Oberlin, OH

Tutor and Lab Helper for Computer Science

(September 2022 – Present)

Astrophysics Researcher

(September 2021 – Present)

- Using **C++** to create a solver for the problem of embedding black holes into Euclidean space.
- Presented on the Oberlin College Undergraduate Research **Symposium** in the Spring of 2022.
- Selected as **Featured Researcher** by the Office of Undergraduate Research ([oberlin.edu/undergraduate-research/iago-braz-mendes-24](https://oberlin.edu/undergraduate-research/iago-braz-mendes-24))

Resident Assistant

(September 2021 – Present)

Grader for Multivariable Calculus

(September 2021 – January 2022)

### Google – Mountain View, CA

STEP Intern

(June 2022 – September 2022)

- Used **Angular** (**TypeScript**) to create reusable components for Google’s internal issue-tracking platform.
- Used **Sass** and **Angular Material** to build a modern, intuitive UI with support for themes.
- Completed the entire development process: design doc, implementation, documentation, and launch.

### Cruz Representações – Brazil

Full Stack Developer

(August 2020 – August 2021)

- Used **React**, **Next.js**, **Node.js** and **MongoDB** to build an E-Commerce and Admin System for a local sales company, attending **1,000+** clients and supporting offline access, spreadsheets, PDFs and more.

## Projects

### Star View (Personal Project)

[starview.one](https://starview.one)

(June 2021 – Present)

- Used **React**, **Next.js**, **React Native** and **Expo** to develop **front-end** for finding skygazing conditions.
- Increased **platform distribution** (Android, IOS and Web) while using the same language (**TypeScript**).
- **10,000+** installs and **1,000+** active users on Google Play.

## Cinephix (Personal Project)

[cinephix.com](http://cinephix.com)

(January 2021 – Present)

- Used **React**, **Next.js**, **Node.js** and **MongoDB** to build the **front-end** and **back-end** of a platform for cinephiles to discover movies and TV shows, organize them, participate in polls for the Oscars, and more.

## Telegram Bot Seller (Group Project for Brazilian VTEX Hackathon)

**2nd place out of 51 teams nationwide**

(April 2021)

- Used **Node.js** and **MongoDB** to build an automated seller connected with VTEX's platform in only 4 days.

## Audiovisual Pong (Group Project for Systems Programming Course)

[audiovisual-pong.vercel.app](http://audiovisual-pong.vercel.app)

(November 2021 – January 2022)

- Used **C#** and **Blazor** to develop a website Pong game version with audiovisual features.

## STEM Guy (Personal Project)

[stemguy.iago-mendes.me](http://stemguy.iago-mendes.me)

(November 2020 – March 2021)

- Used **React**, **Next.js**, **Node.js** and **MongoDB** to build a STEM blog, including its API and admin system.

## Text Counter (Personal Project)

[textcounter.iago-mendes.me](http://textcounter.iago-mendes.me)

(January 2021)

- Used **React** and **Next.js** to develop a text editor website.

## Activities / Leadership

### Astronomical Olympic League

**Content Director & Creator**

(June 2019 – June 2022)

- Created free materials and events for students to study for Astronomy competitions in Brazil and in the world.
- Managed the Content Team, delegating tasks and maintaining a consistent production schedule.

### Regional Astronomical Studies Center

**Event Organizer, Content Creator, and Lecturer**

(March 2019 – September 2021)

- Organized Astronomy events like lectures in public schools, eclipse observations, advanced lectures, etc..

## Honors / Awards

### International Astronomy and Astrophysics Competition

**Gold Honour**

(July 2021)

- Awarded for performing in the competition among the **top 5%** of all participants around the world.

**Ambassador Award for Excellent Encouragement**

(July 2020)

- Awarded to **the one** Brazilian ambassador who recruited the most number of students for the competition.

**Silver Honour**

(July 2020)

- Awarded for performing in the competition among the **top 10%** of all participants around the world.

### International Astronomical Search Collaboration

**Preliminary Detection and Provisional Discovery of an Asteroid**

(August 2021)

- Contributed to Pan-STARRS partnered with NASA by observing near-Earth objects and Main Belt asteroids.

### International Youth Math Challenge

**Silver Honour**

(July 2021)

- Awarded for performing in the competition among the **top 10%** of all participants around the world.

**Bronze Honour**

(July 2020)

- Awarded for performing in the competition among the **top 20%** of all participants around the world.