Matheus Barbosa

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Experience

Carnegie Mellon University | *Software Engineer Intern*   January 2020 - November 2020

Pittsburgh - PA - U.S.A.

- Designed and implemented the architecture of a new API for Virtual Reality Systems using **JavaScript** and **C#,** it served a system for engineering classes of more than 100 students a semester at the school of engineering of CMU.
- Programmed key architectural components for a "tutorial build framework" to optimize the tutorial creation, so anyone could create new tutorials from 2 weeks to a few hours.
- Generalized different components of a tutoring system using **Unity3D** framework, so the software could be reusable in different machines from the engineering school, and in different VR headsets model.

Empiricus Research | *Business Intelligence Intern*   September 2019 - December 2019

São Paulo - Brazil

- Conducted analysis and studies using **Amazon Redshift** along with **Python** and **Tableau** to create compelling visualization elements to generate useful insights for the BI team, as well as to help different teams of the company in the decision-making process.
- Automated the creation of datasets using **Python** and **SQL**, so notifications could be sent for 300k users according to their profiles, which has increased engagement on the platform by ~5%.
- Structured and Analysed A/B studies using **JupyterLab** and **Python,** so the Customer Service Department understood the efficiency of a first customer contact after purchase, and I found an engagement of 15% on the group contacted.

USPCodeLab | *Member and Tutor (Voluntary)*   April 2019 - December 2019

São Paulo - Brazil

- Created and taught classes of **HTML, CSS, JavaScript** for an Introduction to Web Development course designated non-programers.
- Organized hiring events and hacktons for big brazilian banks and tech companies like Facebook.
- Contacted and helped on hiring events involving companies like Microsoft and Facebook for more than 50 people per semester.

B4A group | *Software Engineer Intern*   December 2018 - April 2019

São Paulo - Brazil

- Integrated using using **.NET/C#** a new supplier APIs, to track around 10k orders status a day.
- Implemented **SQL** procedures on database searches and scheduled updates for new needs of the business rules.

Education

University of Sao Paulo | São Paulo, SP, Brazil

B.S, Information Systems class of 2022

Coursework

Artificial Intelligence	Data Structures and Algorithms
Database Systems	Object Oriented Programing
Algorithm analysis	Operating Systems

Skills / Tools

Tools : Python, Java, C#, SQL, JavaScript, Django Unity3, Unix, JupyterLab, HTML/CSS, Node.js, Git.

Languages : English (Fluent), Portuguese (Native), Spanish (advanced knowledge).

Additional Information

Facebook Estacao Hack 2019 - Got the 1st place for best project developed during a 4 week program of a web development bootcamp. My team and I created an MVP using **JavaScript** and the framework **ExpressJS**.

Symposium on Operating Systems Principles (SOSP) 2021 - Collaborated as committee member of the artifact evaluation process to evaluate papers of the greatest symposium on the area of Operation Systems.