

Arthur Barbosa

arthurbarbosa.dev@gmail.com

EDUCATION

University of Colorado Boulder

Expected May 2025

Bachelor of Science in Computer Science

GPA: 3.54

Business Minor

Relevant Coursework: Data Structures, Algorithms, Computer Systems, Object-Oriented Programming, Database Systems, Web Development, Artificial Intelligence, Programming Languages, Human-Computer Interaction.

PROGRAMMING LANGUAGES AND SKILLS

Python | Flutter | C++ | C | SQL | JavaScript | HTML | CSS | Docker | Pandas | PyTorch | Tailwind | Java | Cloudflare | Xano | AI

EXPERIENCE

Project Manager

September 2024 - Present

Boeing Digital Solutions

- Managing a project working on Small Language Models for aviation as part of a Senior Capstone. Leading an Agile team to develop AI solutions using Aviation datasets to enhance Boeing Digital's capabilities.
- Deploying SLMs on edge devices to translate complex NOTAMs into plain English, improving pilot efficiency during taxiing and flight operations.
- Leading communications with Boeing, serving as the main point of contact between our team and Boeing Digital executives, and coordinating weekly meetings and presentations.

Software Engineering Intern

May 2024 - August 2024

Easy Clean App

- Led app testing efforts by identifying and assisting in fixing over 180 bugs, improving overall app stability and performance.
- Contributed to the creation of 15+ new screens for the app, prioritizing user experience
- Conducted quality assurance and developed automated tests using Appium to streamline the testing process and reduce manual testing time.
- Developed backend scripts using Xano to generate repeatable testing data, ensuring a consistent database population for reliable testing outcomes.
- Led the translation of the entire application to Spanish and Portuguese by creating over 700 unique element IDs to ensure accurate localization and expand user reach.

Mobile Developer Intern

June 2023 - July 2023

Toro Investments

- Utilized Flutter at an online financial technology broker to optimize the app's structure, reducing registration times by over 10 seconds.
- Created a new Flutter library to enable dynamic app icon changes, becoming the first public library to integrate both Android and iOS, enhancing customization options for premium users.
- Conducted A/B tests to enhance user retention during the sign-up process by 15% and collaborated in an Agile team to improve the app, utilizing CI/CD pipelines to achieve project goals

PROJECTS

Astro Adventures: Developed Space website with several built-in APIs and features. Daily updates with NASA's Picture of the Day, real-time solar flare data, and live ISS location shown on Google Maps.

Arcane Game: Java-based Dungeons and Dragons game, leveraging object-oriented programming principles to enhance system scalability. Applied Test-driven development and achieved 100% class coverage and 80% method coverage

Twitter Sentiment Analysis: Utilized Twitter Data and did sentiment analysis of different soccer teams utilizing a fine-tuned large language model. Performed Data Analysis, modeling, and graphing for each Team's result.

FOREIGN LANGUAGES

English - Fluent, **Portuguese** - Fluent, **Spanish** - Limited Working Proficiency