João Victor Quintanilha

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PROFESSIONAL SUMMARY

Motivated graduate student with a background in web programming, business analytics, and quantitative research. Demonstrated ability to work collaboratively, self-teach programming languages, and approach problems systematically. Seeking Software Engineering positions for Summer 2025 to leverage technical skills in a corporate environment.

EDUCATION

Tufts University
Bachelor of Science in Computer Science and Biology; Master of Science in Data Analytics
BRASA Scholar; Palantir Technologies Scholar; Pegasystems Scholar; Future Leader Fellow

Boston, USA
Expected Dec 2025
GPA: 3.71

SKILLS

- Python
- JavaScript/TypeScript
- C/C++
- MySQL, MongoDB
- GCP/AWS Services
- Git
- Bash
- TensorFlow
- Pandas
- Jupyter Notebook
- Adobe Creative Cloud
- PowerBI
- Node.js
- Nest.js, React
- HTML, CSS

WORKING EXPERIENCE

Tufts Department of Computer Science
Web Programming Teaching Assistant

Medford, USA
Jan 2024 – Current

- *Evaluating SQL-driven projects, emphasizing the construction and maintenance of efficient and secure database systems*
- *Mentored over 160 students in the study of databases as a full-stack dev, with emphasis on relational database schemas and API applications*

Karachi Water Project
Programmer & Data Analyst Intern

Medford, USA
May 2024 – Jul 2024

- *Reviewed 30,000+ data points on industrial demographics and water usage alongside government reports to estimate factory water use*
- *Developed a text classification algorithm that categorized 67% of data, enhancing clustering speed and precision*

Tufts Human Factors & Ergonomics Society
Web Developer Intern • [view website]

Medford, USA
Jul 2023 – Jul 2024

- *Rebuilt the entire website (36 pages) in HTML, CSS and JavaScript*
- *Streamlined maintenance interface by implementing a content management system, allowing owners to update content independently*

Allen Discovery Center
Undergraduate Research Assistant

Medford, USA
Jan 2023 – Aug 2023

- *Extracted over 2 terabytes of raw data on cancer cells through imagery algorithms on the Suite2P pipeline*
- *Produced over 30 charts for the lab database through the interpretation of the data with statistical models and artificial coloring*

HSB Hochschule Bremen City University of Applied Sciences
Undergraduate Research Assistant

Bremen, Germany
Jul 2021 – Sep 2021

- *Conducted detailed RNA sequence analysis on algae species using computational algorithms, decoding over 70 RNA sequences*
- *Developed workflows using Python scripts for sequence data preprocessing, reducing the time needed for data preparation by 40%*

Anheuser-Busch InBev (AMBEV)
Data Analyst Intern

São Paulo, Brazil
Jun 2020 – Aug 2020

- *Worked in the recovery and preservation of 11 river basins in Argentina, Bolivia, and Brazil*
- *Engineered an Apache Airflow pipeline to automate the analysis of 42 water quality KPIs, culminating in an integrated PowerBI dashboard*

COMPUTER SCIENCE PROJECTS

Blockchain Securitization Platform
BRASA Hacks • Aug 2024 • [view project]

- *Integrated a user authentication system with a MongoDB database, utilizing Prisma ORM for efficient data management*
- *Engineered ERC-20 tokens into a decentralized platform, simulating secure transactions using smart contracts and a React-based interface*

Intro to AI-driven Science on Supercomputers Support
Argonne National Laboratory • Feb 2024 – Apr 2024

- *Selected for a US Department of Energy training program focused on leveraging AI within supercomputing environments*
- *Built advanced neural networks, explored LLM embedding and tokenization, parallel training methods, and AI accelerators*