

# Joao Pedro Haufes

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## EDUCATION

### Duke University

May 2026

*Bachelor of Science in Computer Science, Minor in French Studies*

*Durham, NC*

- Relevant Coursework: Data Structures, Computer Architecture, Data Science, Web Programming, Multivariable Calc., Databases, Discrete Math, Artificial Intelligence, Linear Algebra, Algorithms, NLP, Product Management.
- Honors: Karsh International Scholar (Full-Ride Academic Merit Scholarship).

## EXPERIENCE

### Incoming Software Engineer

Jul. 2026

*Microsoft AI - Bing Answers Team*

*Redmond, WA*

### Software Engineer Intern

Jun. 2025 – Aug. 2025

*Microsoft AI - Bing Answers Team*

*Redmond, WA*

- Drove user engagement and satisfaction in Bing Jobs by implementing an end-to-end LLM-powered data extraction pipeline, surfacing insights (e.g., salary, PTO) across 238 global markets and closing UX gaps with competitors.
- Built a scalable, cost-efficient system to generate regex patterns with multilingual support, integrated into Bing's production pipeline to process millions of job descriptions daily. Developed backend services in C# with internal SQL-like tools (Scope) to expose it via APIs consumed by Bing's UX, serving 150M+ daily active users.
- Enabled salary metadata for over 21.6M daily jobs with 31.61% coverage and 93.39% precision, introducing salary data from a 0% baseline—boosting transparency, engagement, and downstream metrics.

### Software Engineer Intern

May 2024 – Aug. 2024

*BTG Pactual - IT Energy Team*

*Sao Paulo, Brazil*

- Developed a production-grade full-stack system enabling payments of bank accounts for energy contracts, impacting over 900 clients. Integrated with SAP and invoice APIs for data validation and account management.
- Collaborated closely with the operations team to understand and align their requirements, implementing scalable Python, Node.js, React, PostgreSQL, TypeScript, and AWS solutions within the energy trading ecosystem while following CI/CD best practices for testing and deployment.
- Achieved an 85% efficiency increase in payment processing by enhancing the accuracy and speed of handling payments for a portfolio valued at over R\$ 1 billion, demonstrating a commitment to engineering best practices.

### Undergraduate Research Assistant

Aug. 2023 – May 2024

*Duke University - Duke Law Data Lab*

*Durham, NC*

- Implemented Python scripts for data extraction and processing, reducing manual data processing time by 40%.
- Automated data pipelines using web scraping and REST APIs, increasing data retrieval efficiency by 35%.
- Analyzed complex datasets using R, providing insights that supported 3 major legal research projects.

### Data Science Intern

May 2023 – Aug. 2023

*Duke University*

*Durham, NC*

- Analyzed over 9 years of data on Brazil's college and high school education to evaluate the efficacy of racial and social educational policies.
- Utilized Python libraries (Pandas, NumPy, Matplotlib) on a high-performance AWS cluster for data wrangling, cleaning, and statistical analysis of 14GB of public data, converting raw data on over 40 million Brazilian students into meaningful information and visual insights.
- Delivered presentations and reports to Brazilian policymakers and researchers, offering actionable recommendations to enhance social and racial quota policies based on the analyzed data.

## PROJECTS

### Insight Realty | Python, Flask, HTML, CSS, JavaScript, PostgreSQL

Dec. 2024

- Developed a full-stack web application with Flask serving a REST API with HTML, CSS and JavaScript.
- Engineered a real estate analytics tool that calculates key metrics such as Cap Rate and Net Operating Income, incorporating advanced search functionality and user-customizable parameters.

## TECHNICAL SKILLS

**Languages:** Java, Python, C#, C, SQL, HTML/CSS, R, Git, Go, JavaScript, Swift.

**Technologies/Frameworks:** PostgreSQL, React, Node.js, TypeScript, FastAPI, AWS, Bootstrap, Microsoft Azure.