

# PEDRO COMPANY BECK

✉ pedro.beck@inf.ufrgs.br    GitHub    Lattes    LinkedIn

## EDUCATION

### Master of Science (M.Sc.) in Computer Science

Sep. 2024 – Jul. 2026

Federal University of Rio Grande do Sul (UFRGS)

Porto Alegre, Brazil

- Awarded a fellowship from CAPES for ranking 1<sup>st</sup> in the selection process
- Current GPA: 4.00/4.00

### Bachelor of Science (B.Sc.) in Computer Science, *summa cum laude*

Mar. 2020 – Aug. 2024

Federal University of Rio Grande do Sul (UFRGS)

Porto Alegre, Brazil

- Entered in 1<sup>st</sup> place at the 2020 admission exams for Computer Science
- Graduated *summa cum laude*, final GPA: 3.80/4.00

### Doctor of Medicine (M.D.)

Mar. 2025 – Dec. 2030

Federal University of Health Sciences of Porto Alegre (UFCSPA)

Porto Alegre, Brazil

## RESEARCH EXPERIENCE

### Graduate Student Researcher (M.Sc. Student)

Sep. 2024 – present

Computer Graphics, Image Processing and Interaction Group – Institute of Informatics – UFRGS

Porto Alegre, Brazil

- Advisor: Prof. Manuel M. Oliveira
- Fields: Digital Signal Processing, Image Processing
- Supported by a fellowship from CAPES

### BSc in Computer Science Thesis (TCC)

Jan. 2024 – Aug. 2024

Computer Graphics, Image Processing and Interaction Group – Institute of Informatics – UFRGS

Porto Alegre, Brazil

- Thesis Title: Aliasing Removal Using Multiple Sub-Nyquist Samplings
- Advisor: Prof. Manuel M. Oliveira
- Fields: Digital Signal Processing, Image Processing

### Undergraduate Student Researcher

Oct. 2022 – Aug. 2024

Parallel and Distributed Processing Group (GPPD) – Institute of Informatics – UFRGS

Porto Alegre, Brazil

- Researcher in a project in partnership with Petrobras
- Advisor: Prof. Eduardo S. L. Gastal
- Fields: Computer Graphics, Computational Geophysics, High-Performance Computing
- Supported by a fellowship from Petrobras

## TEACHING EXPERIENCE

### Teaching Assistant - Fundamentals of Image Processing

Aug. 2025 – present

Institute of Informatics – UFRGS

Porto Alegre, Brazil

- Advisor: Prof. Manuel M. Oliveira

### Teaching Assistant - Calculus II

Aug. 2021 – Nov. 2021

Institute of Mathematics and Statistics – UFRGS

Porto Alegre, Brazil

- Advisor: Prof. Virginia M. Rodrigues

### Teaching Assistant - Calculus I

Jan. 2021 – May. 2021

Institute of Mathematics and Statistics – UFRGS

Porto Alegre, Brazil

- Advisor: Prof. Flávia M. Branco

## PROFESSIONAL EXPERIENCE

### Full Stack Developer

Nov. 2022 – Mar. 2024

Cognitiva Brasil

Porto Alegre, Brazil

- Technologies Used: Java (Spring Framework), AngularJS, ReactJS, PostgreSQL

TECHNICAL SKILLS

**Natural Languages:** English (Proficient), Portuguese (Fluent), Spanish (Intermediate), Japanese (Basic), Korean (Basic)

**Programming Languages:** C, C++, Java, Python, JavaScript, SQL, HTML, CSS,  $\text{\LaTeX}$ , MATLAB

**Libraries & Frameworks:** OpenCV, ImGUI, Spring, ReactJS, AngularJS, NodeJS, NumPy, SciPy, pandas, Bootstrap

**Tools & Others:** Git, GNU/Linux, PostgreSQL, MySQL, Emacs, Microsoft Office

HONORS AND AWARDS

<b>Bachelor's Degree <i>summa cum laude</i> (Láurea Acadêmica)</b> <i>Institute of Informatics – UFRGS</i>	<b>Sep. 2024</b>
<b>First Place in Admission Exams for Computer Science</b> <i>Institute of Informatics – UFRGS</i>	<b>Jan. 2020</b>
<b>CAPES University Talent Award 2025</b> <i>CAPES</i>	<b>Sep. 2025</b>

LANGUAGE CERTIFICATIONS

**Certificate in Advanced English (CAE) – Grade A – CEFR Level C2**  
*University of Cambridge*

**Japanese Language Proficiency Test (JLPT) N5 – 日本語能力試験 N5**  
*国際交流基金 – Japan Foundation*

**Test of Proficiency in Korean (TOPIK I) – 한국어능력시험 I**  
*국립국제교육원 – National Institute for International Education (NIIED)*

OPEN SOURCE CONTRIBUTIONS

**CalculoNumerico** | [github.com/reatmat/CalculoNumerico](https://github.com/reatmat/CalculoNumerico) | ★ 130+

- Open Source textbook for Numerical Calculus made by the Institute of Mathematics and Statistics - UFRGS

OTHER ACTIVITIES

<b>IEEE UFRGS Student Branch</b> <i>Treasurer</i>	<b>Aug. 2024 – present</b> <i>Porto Alegre, Brazil</i>
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EVENTS ATTENDED

- Anime Buzz Caxias (2024) – Caxias do Sul, Brazil
- XXIV ERAD/RS (2024) – Florianópolis, Brazil
- 30<sup>th</sup> AnimeXtreme (2022) – Porto Alegre, Brazil

OTHER CERTIFICATIONS AND AWARDS

- Honourable Mention in Santa Catarina Chemistry Olympiad – OCQ 2017