

# PEDRO COMPANY BECK

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

## Education

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### Master of Science - Computer Science

Sep. 2024 – Dec. 2025

Federal University of Rio Grande do Sul (UFRGS)

Porto Alegre, Brazil

- Fields: Digital Signal Processing, Image Processing
- Advisor: Prof. Manuel M. Oliveira

### Bachelor of Science - Computer Science

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.
- Final GPA: 3.80/4.00
- Undergraduate Thesis: Aliasing Removal Using Multiple Sub-Nyquist Samplings
- Fields: Digital Signal Processing, Image Processing
- Advisor: Prof. Manuel M. Oliveira

### High School Exchange

Sep. 2018 – May. 2019

Monaghan Collegiate School

Monaghan, Ireland

### Technical High School - Electrotechnics

Jan. 2017 – Jul. 2018

Federal Institute of Santa Catarina (IFSC)

Florianópolis, Brazil

## Academic Experience

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### Undergraduate Student Researcher

Oct. 2022 – present

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

Porto Alegre, Brazil

- Advisors: Prof. Eduardo S. L. Gastal and Prof. Lucas M. Schnorr
- Fields: Computer Graphics, Computational Geophysics, High-Performance Computing

### Undergraduate Student Researcher

Feb. 2022 – Jun. 2022

Multiagent Systems Lab (MASLAB) – Institute of Informatics – UFRGS

Porto Alegre, Brazil

- Advisor: Prof. Ana L. C. Bazzan

### 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

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### Full Stack Developer

Nov. 2022 – Mar. 2024

Cognitiva Brasil

Porto Alegre, Brazil

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

### Full Stack Developer

Jun. 2022 – Nov. 2022

Vent Digital

Porto Alegre, Brazil

- Technologies Used: NodeJS, ReactJS, PostgreSQL

### Full Stack Developer

Feb. 2022 – Jun. 2022

GROW+ Startups Accelerator

Porto Alegre, Brazil

- Technologies Used: Java (Spring Framework), ReactJS, NextJS, 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

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

Language Certifications

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

**Japanese Language Proficiency Test 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/reamat/CalculoNumerico](https://github.com/reamat/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>
<b>Quantum Computing Academic League (LACQ-Feynman/UFRGS)</b> <i>Member</i>	<b>Jul. 2024 – present</b> <i>Porto Alegre, Brazil</i>
<b>Reconecta UFRGS</b> <i>Volunteer</i>	<b>Oct. 2023 – Feb. 2024</b> <i>Porto Alegre, Brazil</i>
<b>Athletic Association Pinguins Imperadores (AAPI/UFRGS)</b> <i>Collaborator – Chess</i>	<b>Jun. 2023 – Jul. 2024</b> <i>Porto Alegre, Brazil</i>

Events Attended

- 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
- Tetris® Grandmaster

Hobbies and Other Interests

- Chess • Music • Piano • Rubik’s Cube