

PEDRO COMPANY BECK



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GitHub



ORCID



Lattes

EDUCATION

Master of Science in Computer Science

Federal University of Rio Grande do Sul (UFRGS)

Sep. 2024 – Dec. 2025

Porto Alegre, Brazil

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

Bachelor of Medicine

Federal University of Health Sciences of Porto Alegre (UFCSPA)

Mar. 2025 – Dec. 2030

Porto Alegre, Brazil

Bachelor of Science in Computer Science, *summa cum laude*

Federal University of Rio Grande do Sul (UFRGS)

Mar. 2020 – Aug. 2024

Porto Alegre, Brazil

- Entered in 1st place at the 2020 admission exams for Computer Science
- Graduated *summa cum laude*
- 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

Monaghan Collegiate School

Sep. 2018 – May. 2019

Monaghan, Ireland

Technical High School - Electrotechnics

Federal Institute of Santa Catarina (IFSC)

Jan. 2017 – Jul. 2018

Florianópolis, Brazil

ACADEMIC EXPERIENCE

Graduate Student Researcher

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

Sep. 2024 – present

Porto Alegre, Brazil

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

Undergraduate Student Researcher

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

Oct. 2022 – Aug. 2024

Porto Alegre, Brazil

- Researcher in a project in partnership with Petrobras
- Advisors: Prof. Eduardo S. L. Gastal and Prof. Lucas M. Schnorr
- Fields: Computer Graphics, Computational Geophysics, High-Performance Computing

Undergraduate Student Researcher

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

Feb. 2022 – Jun. 2022

Porto Alegre, Brazil

- Advisor: Prof. Ana L. C. Bazzan

Teaching Assistant - Calculus II

Institute of Mathematics and Statistics – UFRGS

Aug. 2021 – Nov. 2021

Porto Alegre, Brazil

- Advisor: Prof. Virginia M. Rodrigues

Teaching Assistant - Calculus I

Institute of Mathematics and Statistics – UFRGS

Jan. 2021 – May. 2021

Porto Alegre, Brazil

- Advisor: Prof. Flávia M. Branco

PROFESSIONAL EXPERIENCE

Full Stack Developer

Cognitiva Brasil

Nov. 2022 – Mar. 2024

Jan. 2025 – present

Porto Alegre, Brazil

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

Full Stack Developer

Vent Digital

Jun. 2022 – Nov. 2022

Porto Alegre, Brazil

- Technologies Used: NodeJS, 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, L^AT_EX, MATLAB

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

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

HONORS AND AWARDS

Bachelor’s Degree *summa cum laude* (Láurea Acadêmica)
Institute of Informatics – UFRGS

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/reatmat/CalculoNumerico | ★ 130+

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

OTHER ACTIVITIES

IEEE UFRGS Student Branch

Treasurer

Aug. 2024 – present

Porto Alegre, Brazil

EVENTS ATTENDED

- Anime Buzz Caxias (2024) – Caxias do Sul, Brazil
- XXIV ERAD/RS (2024) – Florianópolis, Brazil
- 30th 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