Pedro Company Beck

✉ pedro.beck@inf.ufrgs.br   ⌨ GitHub   🆔 ORCID   ❂ Lattes

Education

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 Engineering - Civil Infrastructure Engineering   **Sep. 2024 – Dec. 2029**
Federal University of Santa Catarina (UFSC)   *Joinville, Brazil*

Bachelor of Science - Computer Science   **Mar. 2020 – Aug. 2024**
Federal University of Rio Grande do Sul (UFRGS)   *Porto Alegre, Brazil*
- Entered in 1st place at the 2020 admission exams for Computer Science.
- 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

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

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, 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 | ★ 130+

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

Other Activities

IEEE UFRGS Student Branch	**Aug. 2024 – present**
Treasurer	*Porto Alegre, Brazil*
Quantum Computing Academic League (LACQ-Feynman/UFRGS)	**Jul. 2024 – present**
Member	*Porto Alegre, Brazil*
Reconecta UFRGS	**Oct. 2023 – Feb. 2024**
Volunteer	*Porto Alegre, Brazil*
Athletic Association Pinguins Imperadores (AAPI/UFRGS)	**Jun. 2023 – Jul. 2024**
Collaborator – Chess	*Porto Alegre, Brazil*

Events Attended

- 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