

Gabriel Madeira

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EDUCATION

Federal University of Rio Grande do Sul (UFRGS)

Bachelor's degree, Computer Science (GPA: 9.55/10.00)

Feb. 2020 – Dez. 2023

Porto Alegre, Brazil

WORK EXPERIENCE

Software Development Intern (Back-end)

Nelogica

Sep. 2021 – Mar. 2022

Porto Alegre, Brazil

- Implementation of a database event proxy REST API service, in the OpenAPI Specification, almost zeroing the rate of accumulated DB commands in the message service for clients.
- Implementation of a dynamic installer of services, making the process of creating specific new instances easier.
- Implementation of replaceable tags feature in the body of a message in the notification service for clients.
- Technologies: Delphi.

Software Development Intern (Front-end)

Nelogica

Feb. 2021 – Sep. 2021

Porto Alegre, Brazil

- Helping to develop a web platform to operate in the financial market.
- Creation of a virtual wallet component, which simulates a real exchange wallet.
- Login screen loading optimization, using asynchronous imports in JavaScript, 47% reduction in file size required for login screen.
- Asset conversion method from several different quote sources using JavaScript promises.
- Technologies: Vue.js, JavaScript, CSS, HTML.

Computer Technician

Qwerty News Portal

Apr. 2016 – Jul. 2017

Dom Pedrito, Brazil

- Developed a arrival and departure control system.
- Developed a transparency portal.
- Technologies: PHP, HTML, CSS, JavaScript, MySQL.

ACADEMIC EXPERIENCE

Undergraduate Researcher

Information Management Research Group - FURG

Jun. 2018 – Jul. 2020

Rio Grande, Brazil

- Cleaning anomalies in a database of more than 500 thousand rows with Postgresql.
- Development of recursive algorithm for the visualization of academic trees.
- Developed **The Gold Tree**, a web tool for academic genealogy analysis using HTML, CSS, JavaScript and PostgreSQL.
- Study of several machine learning technical algorithms.
- The Nearest Centroid algorithm and TF-IDF method was used to model an advisor recommendation system using Python and scikit-learn library.

Publications

- Madeira, Gabriel, et al. The Gold Tree: An Information System for Analyzing Academic Genealogy. ICEIS. 2019.
- Madeira, Gabriel, et al. A tool for analyzing academic genealogy. Lecture Notes in Business Information Processing, vol 378. Springer, Cham. 2019.
- Madeira, Gabriel, et al. Using Academic Genealogy for Recommending Supervisors. ICEIS. 2021.

EXTRACURRICULAR ACTIVITIES

ICPC Competitor (2018, 2020 and 2021), **FURGBOT Robotics Team** (2018), **Tutorial Education Program (PET)** (2018)

TECHNICAL SKILLS

Languages: Python (2 years), JavaScript (2 years), SQL (2 years), C/C++ (1 year), PHP (1 year), Delphi (4 months).
Technologies: HTML, CSS, Vue.js, Git, Unix/Bash, Scikit-Learn, Pandas, Angular.