Adriano Corbelino II

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EDUCATION

University of Massachusetts Lowell — Lowell, Massachusetts, United States of America
First-year Computer Science PhD student, current GPA of 4.0/4.0. — *Jan 2024 –*

Federal University of Mato Grosso (UFMT) — Cuiabá, Mato Grosso, Brazil
Bachelor in Computer Science with a GPA of 3.62/4.0 (8.84/10.0). — *Jun 2017 – Oct 2021*

RESEARCH EXPERIENCE

Graduate Research Assistant — 2024 –
University of Massachusetts Lowell — *Lowell, Massachusetts, United States of America*

- I participated in a project with Professor Paul Downen to create a new language based on the Sequent Calculus
- I created a Python extension that allows the definition of high-composable classes by Copattern matching.

Undergraduate Research Assistant — 2020 – 2021
Federal University of Mato Grosso — *Cuiabá, Mato Grosso, Brazil*

- I performed an experiment to evaluate the performance of data augmentation methods in the context of bird calls.
- Tools: Python and Librosa.

Research Assistant — 2020 – 2021
Federal University of Mato Grosso — *Cuiabá, Mato Grosso, Brazil*

- I assisted in the creation of the RSDD[1], a dataset containing satellite data about deforestation in Mato Grosso.
- Tools: Python, Rasterio, and QGIS.

TEACHING EXPERIENCE

Undergraduate Teaching Assistant — 2018 – 2021
Federal University of Mato Grosso — *Cuiabá, Mato Grosso, Brazil*

- I assisted in the following courses: Discrete Mathematics, Data Structures, Theory of Formal Languages, Automata and Computability (Theory of Computation), Design and Analysis of Algorithms (twice), Compilers 1 (Compiler's front end).
- I developed exercise lists, taught review lessons, and offered both group and individual help sessions.

PROFESSIONAL EXPERIENCE

Back-end Developer — 2021 – 2022
Acerto — *Remote – Belo Horizonte, Minas Gerais, Brazil*

- I developed, designed, and maintained a diversity of systems for a company that operates in the debt collection market.
- Focus on: Improving query performance and creating tools to automate tasks for other employees.
- Tools: C#, Python, and PostgreSQL.

Full-stack Developer Intern — 2021 – 2021
Núcleo de Tecnologia da Informação e Comunicação do Instituto de Computação (NUTI-IC) — *Cuiabá, Mato Grosso, Brazil*

- I developed and maintained a system that manages the reports of POLITEC-MT, a state department that is responsible for providing services requiring forensic skills.
- Tools: Java, Spring, React, and PostgreSQL.

Full-stack Developer Intern — 2018 – 2020
Núcleo de Tecnologia da Informação e Comunicação do Instituto de Computação (NUTI-IC) — *Cuiabá, Mato Grosso, Brazil*

- I developed and maintained a system that manages the health surveillance data and the dashboards of public health indicators for the Mato Grosso State Health Department.
- Tools: C#, Python, .NET Framework 4.7, ASP.NET MVC, jQuery, Microsoft SQL Server, and Katalon.

PUBLICATIONS

Conference Proceedings

[1]   Rosangela Ventura et al. "RSDD: um Conjunto de Dados para Modelagem de Desmatamentos". In: *Anais do XIV Workshop de Computação Aplicada à Gestão do Meio Ambiente e Recursos Naturais*. João Pessoa/PB: SBC, 2023, pp. 159–162. DOI: 10.5753/wcama.2023.230675. URL: https://sol.sbc.org.br/index.php/wcama/article/view/25106.

CREDENTIALS AND PRIZES

- Best Computer Science Senior of 2020/2.
- 2021 ICPC South America/Brazil Finalist.