Gustavo Estrela de Matos

Tech Lead @ Geekie

Native Portuguese | **Fluent** English

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Education

Institute of Mathematics and Statistics (University of São Paulo)

São Paulo, Brazil

Master of Science in Computer Science — January 2018 - February 2021

Dissertation of title "Identification of cell signaling pathways based on biochemical reaction kinetics repositories". Research project awarded with a São Paulo Research Foundation (FAPESP) scholarship.

Bachelor of Science in Computer Science — February 2013 - December 2017

High Academic Merit Award Ranked #3 out of 50 students.
GPA: 9/10.

Texas A&M University

College Station, Texas

Study abroad program in Computer Science — September 2015 - May 2016

Non-degree seeking exchange student participant of the Government of Brazil program Science Without Borders.
GPA: 3.75/4

Experiences

Geekie

São Paulo, Brazil

Software Engineer — January 2020 - Present

Worked as a full stack engineer in squads of 4 to 6 people. I worked on the development of new features for the Geekie One app, including tasks of the back-end, in Python, and tasks of the front-end, where we used code-sharing with React and React-Native. Some of the technologies and services I had contact with were: AWS EC2 and Lambda; Heroku; New Relic; and Sentry. Some of the features I worked on are: student homework; homework grading; and school reports.

Butantan Institute

São Paulo, Brazil

Graduate Researcher (with FAPESP Scholarship) — January 2018 - February 2021

Masters project in a team of 2 (student and advisor). This project consisted in finding models based on system of ordinary differential equations for cell signaling networks. To rank models, we implemented a Bayesian method to estimate the marginal likelihood of a model. As a result, we created a Python software, called SigNetMS, that creates estimatives of the marginal likelihood of a model (github.com/gustavoem/SigNetMS).

Undergraduate Researcher (with FAPESP Scholarship) — May 2017 - December 2017

Scientific initiation in a team of 2 (student and advisor). In this project we created new parallel algorithms to solve the U-Curve problem based on forest search and divide and conquer, implemented in C++. The results were presented as a conclusion project (https://gustavoem.github.io/ucurve-pfs/index.html) for the bachelor title in computer science.

Undergraduate Researcher (with FAPESP Scholarship) — January 2015 - July 2015

Scientific initiation in a team of 2 (student and advisor). In this opportunity we studied the usage of new data structures for the U-Curve problem. As a result we created a new algorithm, UCSR, implemented in C++ and described on a published paper, of title: "Optimal Boolean lattice-based algorithms for the U-curve optimization problem".

Certifications and Awards