Gustavo Estrela de Matos

Tech Lead @ Geekie

Native Portuguese | **Fluent** English

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Experiences

Geekie
São Paulo, Brazil

Tech Lead — May 2022 - Present

Led a team of 4 to 7 developers including myself, working on a stack with React/React-Native front-end and Python back-end. My responsabilities included:

- collaborating with Product Manager and Designer, providing visibility of possible solutions and their costs and risks;
- ensuring the focus of the team on the sprint, trying to block possible interferences;
- supporting team developers, on their technical progression.

I also worked in some projects outside the scope of my squad. For the engineering team, I migrated legacy back-ends and packages from Python 2 to Python 3; and I was part of a group that explored the use of GraphQL in new features. Furthermore, I assisted other Geekie areas, such as Marketing and Assessment Tests Creation, producing data extractions.

Software Engineer — January 2020 - May 2022

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. Designed a solution that allowed our application to provide, in a few seconds, reports that aggregated performance of many students, with different granularity

Skills: Redis Queue, Iron.io, Heroku, AWS EC2, AWS Lambda, Flask, React.js, React Native, Python, MongoDB, Google BigQuery, Relational Databases, Object-Relational Mapping (ORM).

Butantan Institute
São Paulo, Brazil

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

Masters project in a team of 2 (student and advisor). We created a Python program (github.com/gustavoem/SigNetMS) that allowed Cell Signaling Model Selection, using Bayesian methods to create estimates of marginal likelihood of models.

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

Scientific initiation in a team of 2 (student and advisor). We created new parallel algorithms for the U-Curve problem, using graph partition. Results were presented as a conclusion project for the bachelor title in computer science and also on a published paper.

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

Scientific initiation in a team of 2 (student and advisor). We investigated the usage of new data structures for the U-Curve problem. We created a new algorithm, UCSR, implemented in C++ and described on a published paper.

Skills: Scientific Research, SciPy, NumPy, SymPy, celery, pandas, Machine Learning, Bayesian Inference, Graph Theory, Optimization, Parallel Computing, C++, OpenMP.

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

Ranked #3 out of 50 students. GPA: 9/10.

Texas A&M University
College Station, Texas

Science Without Borders, Study abroad program in Computer Science — September 2015 - May 2016

Certifications and Awards

High Academic Merit Award awarded by the Computer Science Department of the Institute of Mathematics and Statistics of the University of São Paulo. April 2018.

TOEFL iBT total score 93/120.