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 me (for most of the time, less than 5 developers). Worked with React/React-Native front-end and Python back-end with Flask/Pyramid frameworkds. My responsabilities were:
- working with our Product Manager and Designer, giving visibility of possible solutions and their costs and risks;
- guaranteeing the focus of the team on the sprint goal, trying to block possible interferences;
- supporting team developers, on their technical progression.

I also worked in some projects outside the scope of my squad. As an instance, for the engineering team, I migrated legacy back-ends and packages from Python 2 to Python 3; I was also part of a group that started and experimented using GraphQL in new features. I also helped other Geekie areas, such as Marketing and Assessment Tests Creation (team that created exams in many formats, including ENEM) producing data extractions that were useful for their teams, usually with Python Notebooks or BigQuery tables.

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.