Gabriel Simoes

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EDUCATION

University of Notre Dame — Notre Dame, IN   Aug 2018 — May 2022
- Bachelor of Science | Major: Computer Science
- GPA: 4.0 | Dean's Honor List
- Initiating a research project in Natural Language Processing in Fall 2020.

WORK EXPERIENCE

Palantir Technologies — Remote / Palo Alto, CA — Software Engineer Intern   Summer 2020
- Worked on the development of a multi-service product with thousands of frequent users. Focused on the Java-based backend, but also worked on the front-end and got exposed to many other technologies.
- Iterated with designers, back-end and front-end developers based on user feedback to develop and ship a number of user-facing features and performance improvements.
- Achieved constant collaboration by quickly planning and presenting ideas to the team.

BTG Pactual — São Paulo, Brazil — IT Summer Analyst   Summer 2019
- Worked on the development of a large financial valuation application.
- Responsible for developing a series of features visible to users, directly impacting user experience.
- Identified algorithmic and database optimizations, reducing a given calculation's execution time and memory usage in up to 50% and making other slow operations instantaneous to the user.
- Refactored a large grid system in C#/WinForms critical to the application's maintenance, while preserving full backward compatibility, reducing a 15000-line module by 56%.

Academic Computing Operations — Notre Dame, IN — Student Assistant   Spring 2019 — Present
- Responsible for operating and maintaining university academic computing infrastructure, such as computer labs, clusters and printing system.
- Produced and refactored programs in Python and Perl used in daily operations and monitoring.

TECHNICAL SKILLS

Data analysis and statistics: Python (numpy, pandas, tensorflow, scraping, matplotlib), SQL

Systems programming: C/C++, Go, Python, Bash

Back-end development: HTTP, microservices architechture, business logic, data processing, and testing using Java, C#/.NET, Go, SQL

Front-end development: back-end integration using Javascript, HTML, CSS

Other technologies: Linux, Git, Agile Methods, Clojure, Docker, LaTeX

HONORS & AWARDS

AT&T Irish Hacks Hackathon 2019 — University of Notre Dame   2019
PWC Prize for Best Societal Impact

AT&T Irish Hacks Hackathon 2018 — University of Notre Dame   2018
Pariveda Solutions Prize for Best Underclassmen-led Project

30th International Olympiad in Informatics (IOI) — Japan   2018
- Performance: Silver Medalist
- Most prestigious international Computer Science competition for High School students.

29th International Olympiad in Informatics (IOI) — Iran   2017
Performance: 197th out of 300 competitors

Ibero-American Olympiad in Informatics (CIIC) 2017 and 2018   2017 — 2018
Performance: Twice Gold Medalist