Lucca Bazzo Bertoncini

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EDUCATION

- **Minerva Schools at KGI**   San Francisco, CA
  Bachelor of Computer Science; GPA: 3.70   *Aug. 2017 – Jun. 2022*
    - **TAship (CS50/51)**: Assisted 200 students to understand programming concepts including data structures, web dev, etc. (09/17 - 05/18)

EXPERIENCE

- **BTG Pactual**   Brazil, São Paulo
  Software Engineer   *May 2019 - Aug 2020*
    - **Software Development**: Responsible for migrating internal systems, using JavaScript in the frontend (React), and a serverless backend hosted on AWS (API Gateway, Lambda, DynamoDB...) using python.
    - **Cache**: Developed a Cache structure to reduce request time by more than 99% (from 300ms to less than 3 ms). Implemented a CDN layer to make the website much more responsive world-wide.
    - **Tests**: Implemented an automated testing pipeline that covered 90% of the software, using Jest and Enzyme.
    - **CI/CD**: Built a CI/CD pipeline to eliminate the manual steps needed with every change in repository, resulting in an increase in deployment frequency by 3X.
    - **Automation**: Built an IP/URL protection system, blocking them automatically if they are found to be malicious based on databases and API services.

- **BRASA**   Remote
  Director of Technology   *Feb 2019 - Aug 2020*
  Software Engineer   *Mar 2018 - Feb 2019*
    - **Software Development**: Developed a new website for the company's mentorship programs (around 200 students per year). Full-stack web development (Angular and TypeScript on the Frontend and Flask on the Backend).
    - **Optimizations**: Reduced organization monthly expenses in the technology department on 85% by auto-scaling machines and adding serverless (Frontend, and Backend) solutions. Increased speed of static content delivery by 80% using CDN (CloudFront).

- **SK Encar**   Seoul, South Korea
  Software Engineer   *Sep 2018 - Dec 2018*
    - **Software Development**: Led a team of 5 interns to build a car recommendation system (Django, NumPy, Pandas).

- **Stone Pagamentos (Pagar.me)**   Brazil, São Paulo
  Software Engineer   *May 2017 - Aug 2017*
    - **Software Development**: Build a RESTful API and dashboard to enable easy database changes and consultation using Django.

ACCOMPLISHMENTS

- **National Olympiad**: Gold Medalist in the Brazilian Olympic Games of Astronomy and Rocket Science. (90,000 participants). Finalist in National competition of Economics (2,000 participants), and in Brazilian Olympiad of Physics. (100,000 participants)
- **Splunk**: Second place on Splunk "Boss of the SOC" national competition in Brazil. (I was the youngest among the participants).
- **Hackathons**: First Place on FirstNet Hackathon ('First Assist': https://developer.att.com/blog/firstnet-public-safety-hackathon-2018). First Place on Oracle Cloud challenge in San Francisco Developer Week 2018.
- **Mentorship**: Mentor to Brazilian students applying to top US universities, Mentees were accepted to top schools such as MIT. (2018)

PROGRAMMING SKILLS

- Python, SQL, Ruby on Rails, Django, JS frameworks (React, React Native, Typescript), HTML/CSS, Heroku and Netifly, Docker, AWS (Lambda, API Gateway, EC2...), node