Lucas Guesser Targino da Silva

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Main Interests

Combinatorial Optimizations, Artificial Intelligence, Algorithms, Software Development.

Industry Experience

- **JettaCargo Logistics Optimization** Remote, Brazil
  Software Engineer *October 2020 - November 2022*
  - Thrived in the dynamic and fast-paced startup environment of JettaCargo, adapting quickly to the evolving needs of a small but impactful company;
  - Developed robust and maintainable code in C++, Java, and Python, meeting tight deadlines for high-profile clients;
  - Led the implementation of critical features in response to rapidly changing client requirements, showcasing adaptability and agility;
  - Contributed to the migration of microservices from REST to Messaging queue, demonstrating the ability to embrace and drive change;
  - Successfully led a 3-person team to resolve a critical bug affecting all clients, showcasing quick problem-solving skills;
  - Improved the performance of a mission-critical microservice by over 99%, demonstrating efficiency in a high-pressure environment;
  - Implemented a lightweight microservice for weight limit checks using REST API, meeting the demand for quick and scalable solutions;
  - Main Technologies: C++, Java, Python, JavaScript (Node), Shell Script, Docker, Kubernetes, AWS, Git, Linux;
  - Skills: Adapting to Change, Agile Development, Rapid Problem Solving, Time Management;

Education

- **University of Campinas (UNICAMP)** Campinas, Brazil
  Master in Computer Science (Combinatorial Optimization) *March 2022 - Present*
  - This will not interfere with availability for relocation, the research project is being conducted remotely;
- **RWTH Aachen University** Aachen, Germany
  Mechanical Engineering - Visiting Project Student *July 2018 - July 2019*
- **Federal University of Santa Catarina (UFSC)** Florianópolis, Brazil
  Bachelor in Mechanical Engineering *March 2014 - March 2020*
  - Specialized in computational methods for mechanical engineering and development of simulation methodologies;

Research Experience

- **Laboratory for Machine Tools and Production Engineering (WZL)** Jul 2018 - Jul 2019
  - **RWTH Aachen is one of the top 200 universities in the world**;
  - Developed a fault detection methodology for machine tool valves;
  - Worked on explainable fault detection methodology for drilling processes;
  - Main technologies: Python, Orange Data-Mining, Git;
- **Laboratory for Numerical Simulation in Fluid Mechanics and Heat Transfer** Aug 2015 - Jun 2018
  - Developed finite volume technique for simulating geomechanics-fluid flow coupling;
  - Collaborated on the publication of two articles;
  - Main Technologies: C++, C, Shell Script, Git, CMake, Python, Linux;

Skills

- **Programming Languages**: C/C++ (experienced), Java (experienced), Python (experienced), JavaScript, Node (experienced), SQL (intermediate), R (beginner), HTML/CSS (prior usage).
- **Techniques**: Automated Testing, Test-Driven Development (experienced), Benchmarking, Microbenchmarking, code profiling (experienced), Microservice Architecture (intermediate), Agile Software Development (experienced).
- **Languages:**: Portuguese (native), English (fluent), German (beginner).