

SEBASTIAN GAETE

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EDUCATION

Master of Science in Computer Science <i>University of Texas at Austin</i>	<i>Aug 2022 - May 2024</i> <i>GPA: 3.8/4.0</i>
Master of Engineering <i>Pontificia Universidad Católica de Chile</i>	<i>Jan 2017 - Jan 2018</i>
Dual Degree with Master of Engineering, Major in Applied Mathematics <i>École Centrale de Lille at France</i>	<i>Aug 2013 - Jun 2015</i>
B. in Industrial Civil Engineering, Major in Information Technologies <i>Pontificia Universidad Católica de Chile</i>	<i>Mar 2011 - Dec 2016</i>

WORK EXPERIENCE

LATAM Cargo <i>Network and Operations Senior Analyst, Strategic Planning</i>	<i>Miami, FL</i> <i>Aug 2019 - Jul 2022</i>
<ul style="list-style-type: none">Developed and executed Python-based solutions to adhere to crew regulations and optimize crew shift distribution.Constructed and implemented datasets to support SQL queries, resulted in a 10% increase of the fleet utilization.Implemented data-driven forecasting for unscheduled maintenance failures in the cargo fleet, achieving a 7% reduction in maintenance hours thanks to preventive maintenance measures.	
LATAM Airlines Group <i>Strategic Sourcing Analyst. Ranked 1st among procurement and finance analysts.</i>	<i>Santiago, Chile</i> <i>Jan 2018 - Sep 2019</i>
<ul style="list-style-type: none">Designed and executed a fuel import project in Brazil, which is the company's largest market. The initiative resulted in savings of \$55M USD for LATAM and \$165M for the Brazilian jet fuel industry.Developed fuel optimization models for flight routes, saving \$10M and significant reductions in CO₂ emissions.	

SKILLS

Programming Languages: Python, C++, C, Debugger Use (gdb), Java, TypeScript, OpenGL, SQL, Linux (kernel/user mode) and Unix shell, R, VBA, Open Source (GitHub/ GitLab)
Languages: Native Spanish speaker, fluent in English and French.

PROJECTS

Black-Box Adversarial Attacks against Models of Code	<i>Feb 2023 - Apr 2023</i>
<ul style="list-style-type: none">Implemented and analyzed a generalizable black-box attack against models of code. [Code][Report]	
Frequency Based Histogram Query Optimizer	<i>Jan 2023 - Apr 2023</i>
<ul style="list-style-type: none">Development of a Frequency Based Histogram Query Optimizer for Efficient Join Order Selection.[Code][Report]	

RESEARCH EXPERIENCE

Pontificia Universidad Católica de Chile, Graduate Research	<i>Aug 2016 - Jan 2018</i>
<ul style="list-style-type: none">Assessed the innovation and barriers of Chilean SMEs using data from Chile's national surveys. [Thesis]	
Pontificia Universidad Católica de Chile, Research Assistant	<i>Jan 2017 - Aug 2017</i>
<ul style="list-style-type: none">Designed an entrepreneurship index following the OECD standards for ASELA.	
Ecole Centrale de Lille at France, Undergraduate Research	<i>Jan 2016 - Jun 2016</i>
<ul style="list-style-type: none">Implemented solutions through linear programming to optimize the scheduling of train conductors at SNCF.	

LEADERSHIP

Pontificia Universidad Católica de Chile	<i>May 2011 - Dec 2016</i>
<ul style="list-style-type: none">Teaching Assistant for Introduction to Programming, Linear Algebra, Calculus III, Marketing and Time Series.	
Ecole Centrale de Lille at France	<i>Jan 2014 - Dec 2014</i>
<ul style="list-style-type: none">President of University International Students Association. Led a team of 6 people responsible for assisting the university's international students.	