

Rodrigo Salguero

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About Me

- Talented and competitive individual with strong analytical skills and a passion for problem solving, algorithms and continuous learning.
- Strong team spirit and fondness for sharing knowledge as a result of being involved in programming competitions since 2016.
- Fast learner, able to adapt to any environment and to work very well under pressure.
- 2 times ICPC (International Collegiate Programming Contest) World Finalist and reached Master level (Top 1%) at Codeforces

Work Experience

Simulation & Integration Intern / Engineer

August 2024 – July 2025; August 2025 – Present

Volvo GTT

Gothenburg, Sweden

- * Maintained and expanded software-in-the-loop (SIL) CI pipelines, including massive resimulation workflows ran in kubernetes cluster for embedded software validation and verification.
- * Worked and contributed to a C++ in-house tool in developed by the team for ADAS function developers, enabling simulation and integration with object simulation software.
- * Collaborated with the Data Analytics team to provide open-loop simulation data for bi-weekly software releases.
- * Day-to-day experience with C++, Python, Docker Containers, Kubernetes, Jenkins (Groovy), Gradle, and C#, with exposure to AUTOSAR and functional safety.

Freelance Developer

September 2023 – November 2023

Escuela de Taekwondo Keumgang y Delfines Kwan

Cochabamba Bolivia

- * Developed a responsive web application, enhancing admin tasks for efficient student management for a Taekwondo academy.
- * Used Angular as for front-end and Firebase as backend.
- * Enrollment of students, tracking of attendance, payment and debt management.
- * Collaborated closely with stakeholders to gather requirements.
- * Provided ongoing maintenance and support.

Python Back-End Developer

April 2022 – December 2022

Zebrands

Remote for Mexico

- * Developed endpoints for Payment Gateways using Flask framework.
- * ERPNext for Back Office, developed features including finance reports and complex SQL queries.
- * Worked with unit testing.
- * Worked with AWS Lambda.

University Teaching Assistant

January 2019 – July 2022

Universidad Mayor de San Simón

Cochabamba, Bolivia

- * Introduction to programming.
- * Data structures and fundamentals of programming.

Skills

Programming Languages: C++, C, C#, Python, Java, JavaScript, PHP, Haskell, SQL, HTML, CSS

Development Tools : Git/GitHub, SQL, Postman, Angular, Spring, Laravel, Frappe, Flask, AWS, Firebase, Jenkins, Gradle, Docker, Kubernetes

Languages: Proficient English speaker, native Spanish speaker

Competitive Programming Training

Competitive Programming training camps:

Took part in prestigious competitive programming courses in Latin America and worldwide.

Fields of study: Algorithms, data structures and problem solving techniques

- Moscow Workshop April 2021, November 2021.
- 41st Petrozavodsk Programming Camp.
- Brazilian ICPC Summer School 2019, 2020.

Awards & Honors

Honorable Mention	45th, 47th ICPC World Finals. (2022, 2024)
5th, 3rd, 10th, 15th	ACM ICPC- South America/South Regional (2018-2023)
54th, 43rd, 11th, 22nd, 19th, 38th	IEEEExtreme global programming competition (2018-2023)
1st, 1st, 1st, 1st, 3rd, 5th	Bolivian ICPC Preliminary Contest (2016-2022)
Participation	Ibero-American Math Olympiad (2016)
Bronze Medal	Bolivian Math "Euler" Olympiad (2015)
Honorable Mention	Bolivian Math Olympiad (2015)
Honorable Mention	Bolivian Physics Olympiad (2012, 2013)
Gold Medal	Bolivian Math "Gauss" Olympiad (2011)

Volunteering and Organizing

Universidad Mayor de San Simón "SanSi Cup" 2023, 2024 - Contest Organizer and Problemsetter: Successfully organized and wrote several problems for the first two individual national programming competitions with more than 200 participants for college students consisting of online qualification rounds and onsite final round.

Iberoamerican Olympiad in Informatics 2021-2022 - Problemsetter: Wrote a problem for the Iberoamerican Programming Competition in 2022 and Co-wrote a problem in 2021, involving high school contestants from all Latin America, Spain and Portugal.

ICPC Bolivia - Problemsetter and Judge 2021: Wrote problems and helped as part of the judge team for the national 2021 ICPC competition.

Bolivian Informatics Olympiad - Organizer and problemsetter : Problemsetter and member of the team in charge of organizing the Informatics Olympiad in Bolivia. A series of national level programming competitions for high schools students. Other activities include selecting the bolivian team for the International Olympiad in Informatics and training such team.

Competitive programming teacher: Organized various activities since December 2018 to promote competitive programming in Bolivia:

- Organized and gave several lectures in competitive programming camps at my university.
- Gave several open algorithm classes online.
- Coached students from my former high school
- Co-coached several teams for ICPC Regionals.