# Blaz Korecic





## SUMMARY

Currently pursuing a Master's degree in Computer Science. Interested in security, embedded systems, algorithms and data structures, software development, mathematics, and education.



## **EDUCATION**

Universidad de Chile Santiago, Chile 2024 - Present **M.Sc.** | Computer Science Advisor: Prof. Gonzalo Navarro

 Universidad de Chile Santiago, Chile 2022 - Present **P.Eng.** | Computer Science and Engineering Advisor: Prof. Gonzalo Navarro

• Universidad de Chile Santiago, Chile **B.Eng.** | Computer Science and Engineering 2018 - 2022



## EXPERIENCE

 Inria Paris, France Research Intern January 2024 – April 2024

- Three month internship in the Inria-AIO team.
- Participated in various academic projects, including topics like hardware security, embedded systems, IoT and multi-robot systems.

#### Millennium Institute Foundational Research on Data

Santiago, Chile January 2022 – February 2022

January 2021 – February 2021

Software Engineering Intern

• Modernization of a C++ project.

• Reimplementation of compression and search algorithms for large string dictionaries.

 SARCAN Santiago, Chile

Software Engineering Intern

- Development of a web application for performing CRUD operations on a database and interacting with an optimizer.
- Creation of a static website built with Hugo for internal company documentation.

## Easy Program Checking

Santiago, Chile

Developer

August 2020 - January 2021

• Open source web application created with Django used for the grading of students' assignments in computer science subjects.

## Brazilian ICPC Summer School

Campinas, Brasil

• Participated in the ICPC Brazil Summer Camp, World Finals class.

January 2020

#### • Universidad de Chile

Teaching Assistant

Santiago, Chile 2020 – Present

- CC4005 Competitive Programming (2021 to 2024).
- CC3101 Discrete Mathematics for Computer Science (2023).
- o CC3301 Systems Programming (2021, 2022 and 2024).
- $\circ~$  CC3003 Algorithms and Data Structures (2020 and 2021).

## **Publications**

- Ultra-Low Power DNN-based TSCH Scheduling at the Edge using the MAX78000. *Martina Balbi, Erman Okman, Blaz Korecic, Lance Doherty, Thomas Watteyne*. Accepted by the 3rd International Conference on Embedded Systems and Artificial Intelligence (ESAI).
- <u>Single-Chip Motes and SRAM PUF: Feasibility Study.</u> Sara Faour, Blaz Korecic, Mališa Vučinić, Filip Maksimovic, David C Burnett, et al. In proceedings of the 2024 IEEE Workshop on Crystal-Free/-Less Radio and System-Based Research for IoT (CrystalFreeIoT).

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## **VOLUNTEERING**

## • Chilean ICPC Winter Training Camp (CIPC)

Concepción, Chile

 Organized a Chilean competitive programming winter school, with the participacion of over 60 university students across the country. 2024

## • Computer Science Department Student Council (CaDCC)

- Member of the Computer Science Department Student Council, actively assisting in organizing various 2024 activities throughout the year.
- Chilean Olympiad in Informatics (OCI)
  - Organizer and problem setter for Chile's premier programming competition for secondary school 2021-2024 students, which serves as the national qualifier for the International Olympiad in Informatics (IOI).

## Preuniversitario José Carrasco Tapia

Santiago, Chile

 Volunteered as mathematics teacher at an institution that assists economically disadvantaged students in accessing higher education.



## **ACHIEVEMENTS**

## • International Collegiate Programming Contest

Competitor

- **ICPC 2023:** Placed 7th in the South America/South finals. Second place in Chile. Qualified to the 2024 ICPC Latin America Championship in Guadalajara, Mexico.
- ICPC 2021: Placed 6th in the South America/South finals. First place in Chile.
- **ICPC 2019:** Placed 16th in the South America/South finals. Third place in Chile.
- ICPC 2018: Placed 31st in the South America/South finals. Sixth place in Chile.

### IEEExtreme

Competitor

- **IEEExtreme 18.0:** Placed 59th out of 8785 teams worldwide.
- **IEEExtreme 15.0:** Placed 21st out of 2402 teams worldwide.
- **IEEExtreme 13.0:** Placed 116th out of 2534 teams worldwide.



- **Programming:** C, C++, Python, Java, SQL, Javascript, Bash, Scheme, OCaml.
- Frameworks: React, Django, Flask, FastAPI, Qt.
- Other: Docker, Linux, Git, PostgreSQL, NoSQL, Firebase, AWS, DigitalOcean.

## **LANGUAGES**

Spanish: Native English: Advanced

• French: Basic