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

Software Engineering Intern

January 2022 – February 2022

- Modernization of a C++ project.
- Reimplementation of compression and search algorithms for large string dictionaries.

SARCAN

Santiago, Chile

Software Engineering Intern

January 2021 – February 2021

- 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).
- 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).



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 45th 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, JavaScript, TypeScript, Java, SQL, Bash, Scheme, Lua, OCaml.
- Frameworks: React, Next.js, Astro, Django, Flask, FastAPI, Qt.
- Other: Docker, Linux, Git, CI/CD, PostgreSQL, NoSQL, Firebase, AWS, DigitalOcean.

LANGUAGES

• Spanish: Native

• English: Advanced

• French: Basic