

# Curriculum Vitae

## Tomás Javier Vallejos Parada *September 12, 1997*

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Chile

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### Profile

Computer Science engineering student at University of Chile, Scout, passionate about teaching, committed on challenges, high teamwork capacity, music enthusiastic and always searching new knowledge.

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### Education

University of Chile

SANTIAGO, REGIÓN METROPOLITANA, CHILE

Civil Engineering in Computer Science

2016 – present

Bachelors in Computer Science

2016 – present

**Distinctions:** Outstanding student 2017, Outstanding student 2018

#### Relevant Courses

**Programming Languages given by Federico Olmedo**

*Spring 2019*

Main topics: Programming Languages implementation, application, semantics. Mechanisms for enhancement languages, macros in particular.

**Functional programming given by Federico Olmedo**

*Fall 2020*

Main topics: Haskell, Functors, Applicatives, Monads, Parallelism in functional languages, make code optimizations capturing recurrent programming patterns, mathematical reasoning about programs.

**Compiler Design and Implementation given by Éric Tanter**

*Spring 2020*

Main topics: parsing, assembly x86-64 generation, compiling multiple data types, interaction with C, procedures, recursion management, types inference and verification, data structures, first class functions, objects, memory management, execution optimizations and efficiency. .

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## Academic Experience

### Department of Computer Science (DCC) - University of Chile.

- Member of the Academic Evaluation Committee** *2019 – Present*  
Deal with administrative and strategic aspects of undergraduate teaching, ensure the curricular coherence of the specialty.
- Teaching director at the students center of DCC** *2019 – 2020*  
Represent students of DCC in front of any authority, promote integration and participation at the DCC community, generate instances to canalize and give solutions to students problems.
- Teaching Assistant at CC4101 Programming Languages** *Spring 2020 – Present*  
Recitation of practical classes. Management of teaching aides for test, exam and homework grading.
- Teaching Assistant at CC3002 Design and Programming Methodologies** *Fall 2020 – Present*  
Recitation of theoretical and practical classes. Management of teaching aides for test, exam and homework grading.
- Teaching Aide at CC4101 Programming Languages** 1 Semester
- Teaching Aide at CC3002 Design and Programming Methodologies** 2 Semesters
- Teaching Aide at CC3001 Algorithms and Data Structures** 2 Semesters

### Escuela de Verano - University of Chile

- Teaching Assistant at Arduino based programming** *April 2018 – August 2018*  
Help students on circuits configuration and arduino programming, teaching them to code robots through the practice.
- Teaching Assistant at Introduction to Robotics** *July 2018*  
Help students to assimilate programming concepts through the use of programmable robots *Iroh*.

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## Professional Experience

### ALMA observatory

- Summer Internship 2020 - Computer Science, Software Engineering students** *Summer 2020*  
Design and implement a monitoring system for docker swarm application environment. Including an automatized setup and deployment for monitoring hosts, docker process and applications running inside of docker containers.