

Salvador Corts Sánchez

Computer Science Student and Software Engineer

I am good at problem solving and team working. I am proficient in Linux use and administration, It has been my main operating system since I was 12 years old. I always have security, performance, scalability and automation in mind when I work, following the Twelve-Factor App Methodology.

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📍 Granada, Spain

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🐙 github.com/salvacorts

EDUCATION

B.S. Computer Science

The University of British Columbia [↗](#)

Two terms exchange student.
Distributed systems and Project Management courses.

09/2018 - 04/2019
Vancouver, Canada

B.E. Computer Engineering

University of Granada [↗](#)

Specialization in Soft Computing and Intelligent Systems.

09/2015 - 09/2019
Granada, Spain

WORK EXPERIENCE

Real-Time Innovations (RTI) [↗](#)

RTI is the Industrial Internet of Things (IIoT) connectivity company. RTI Connex DDS is a framework that shares information in real time, making applications work together as one, integrated system.

Across industries and across the world, companies rely on Connex DDS to connect their mission-critical industrial systems. Such as NASA, Lockheed Martin, Raytheon, Audi, Hyperloop and General Atomics among many others.

Software Engineer I

Micro Team

10/2019 - Present
Granada, Spain

- Working on Connex DDS Micro and Cert: implementations of the OMG DDS standard for resource-constrained devices certified for avionics and military systems. [↗](#)
- Implementing CRC support for Connex DDS Micro.
- Working on ISO-26262 certification for road vehicles, and DO-178C certification for avionics.
- Two months as support engineer solving problems in complex scenarios encountered by our customers in fields such as autonomous vehicles or defense among others.
- Feature and unit testing of distributed systems across different Operative Systems and Architectures such as FreeRTOS, VxWorks, Linux, Windows, and QNX.

Software Engineer Intern

Performance Team

05/2019 - 09/2019
Granada, Spain

- FlatData and Zero Copy support for RTI PerfTest, a command-line application that measures the Latency and Throughput of very configurable scenarios. [↗](#)
- Tool to benchmark different serialization solutions against different data types.
- Found and fixed performance degradation bug in critical path of Connex DDS Pro.

Mentor: Javier Morales - jmorales@rti.com

DL Consultores [↗](#)

Software Developer Intern

Research and Development Team

07/2017 - 08/2017
Buenos Aires, Argentina

- Server back-end development to manage a client support chat.
- Intelligent Assistant development and training to assist clients searching for legal and financial documents.
- Web penetration testing on a under-development project.

Recommendation Letter

Skills

C/C++, Python, Golang



Java, Bash, SQL, Docker



Machine Learning, Linux



Google Cloud, Travis CI, C#



Algorithms, Data Structures



Distributed Systems, Networking



ORGANIZATIONS

HighSec Blog [↗](#)

Writer
Blog about cyber security

2014 - 2015

Hack & Beers [↗](#)

Organizer
Talks about cyber security

2017 - 2018

VegaJam

Organizer
Videogame development competition

2019 - Now

LANGUAGES

English

Full Professional Proficiency

Spanish

Native Proficiency

PROJECTS

Gocey. Distributed Evolutionary Algorithms on Ephemeral Infrastructure [↗](#)

Golang, Protocol Buffers, gRPC, Docker, Prometheus, WASM, Distributed Systems, Machine Learning

Bachelor Thesis. A Go library to run decentralized evolutionary algorithms powered by a peer-to-peer collaborative science network. The demonstration problem was optimization of neural networks for cancer detection.

Web client written in Javascript and Web Assembly. Native client written in Golang.

Heavily unit-tested and developed with scrum.

Supervisor: J.J. Merelo - jmerelo@ugr.es

How it does [↗](#)

Angular, Golang, Google Cloud, Kubernetes, Travis CI

Website to retrieve customer reviews for products, extracting key features and sentiments about them.

QAP Metaheuristics Collection [↗](#)

C++, CMake, Metaheuristics

A collection of different metaheuristics to solve QAP problems. Including Genetic algorithms, Memetic Algorithms, GRASP and Simulated Annealing among others.

Distributed Hash Table [↗](#)

Java, Maven, Distributed Systems, Epidemic Protocols

Implementation of a Distributed Hash Table, like Amazon's Dynamo DB, to store a map of key value pairs on a peer-to-peer system.

Interactive MNIST Paint [↗](#)

Python, Keras

GUI to draw numbers and recognize them with a neural network trained using Keras and the MNIST dataset.

Smashcrack [↗](#)

Python, Cryptography, HTML, CSS, SQL

A web page to encrypt text, identify common encryption algorithms and attempt to crack encrypted text.

Password Cracking Suite [↗](#)

Python, Cryptography

CLI tool to crack encrypted text with bruteforce or by using dictionaries.

Hulio Wars [↗](#)

Game Development, Godot Engine

A small videogame developed in 48 intense hours for the MalagaJam VIII. A 2D videogame where you have to slay as many enemies as you can before you change team or die.

I was in charge of developing the AI of the enemies.

Zurbi & Whiskey [↗](#)

Game Development, Unity Engine, C#

3D Videogame for the MalagaJam IX. Collaborate with your rival while cleaning the beach by throwing the garbage to a Garbage truck or try to mess with your opponent's game plan by throwing rubbish to their side of the shore.

If the players collaborate they can both achieve the victory, but if you throw all the garbage to your opponent you can have a victory all for yourself.

Jojoai [↗](#)

Game Development, Unity Engine, C#

Online Videogame for the VegaJam I developed in 48 hours. Players have to make as much damage as they can in order to become the next god, which will be able to slay other players with just one shot.

I was in charge of implementing the online mode where players can controll their character with their phones.

I was also one of the event orginizers.

INTERESTS

Distributed Systems

IoT

Security

Machine Learning

Cloud Computing

Large-Scale Systems

Sustainability

Autonomous Systems

Defense

Avionics

Hobbies

Cooking

Hicking

Alto Sax

Ultralight Aviation

Travelling

Motor sports