Santiago**Saavedra**

Engineer in Computer Science

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Web & Git
ssaavedra.eu
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bitbucket.org/ssaavedra
gitlab.com/u/mapcar

Programming
- **Android** ★★★★★
- **APIs** ★★★★★
- **Bash** ★★★★★
- **C. Lisp** ★★★★★
- **ES6** ★★★★★
- **Haskell** ★★★★★
- **Java** ★★★★★
- **OCaml** ★★★★★
- **Python** ★★★★★
- **React** ★★★★★
- **Scala** ★★★★★

Personal Skills

Honesty · Initiative · Curiosity · Team Player · Problem Solving · Open Source

Experience

11/16 - Now	**Software Developer & Data Engineer**	OpenShine

Work on a big data platform for real-time video analytics.
Kafka, Spark, Kafka Streams, ElasticSearch, AWS, Kubernetes, Django REST Framework, Swagger.

02/17 - Now — Board Member — GPUL
After three years as its President, I now sit on the GPUL Board to oversee the projects and help the new members on the onboarding, as well as still organizing events remotely in my free time.

02/16 - 11/16 — Research Assistant — Complutense University of Madrid
Working on a MINECO project towards an automated software verification platform. I wrote parts in Common Lisp, an API using Django REST Framework, and an Eclipse plugin is planned.

09/14 - 12/15 — Co-Founder, Developer & DevOps — VACmatch
VACmatch was a sports management solution. Full-Stack developer, using Spring, Scala, Django, DRF, React and CouchDB. DevOps: dedicated Jenkins, Redmine, Gerrit and Docker. We made Open Source based software. As co-founder, I advised on executive, strategic and technological issues. We were registered Tech-Based Employment Initiative (IEBT-Spain) and members of Galicia Open_Future and CISE Yuzz! 2015.

02/14 - 02/17 — President & Chairman of the Board — GPUL (Group of Programmers and Users of Linux)
GPUL is a registered non-profit in A Coruña whose main goal is to educate people around Free Software.
Give out talks and workshops, mostly on Git and Python, manage the NGO's deals with public and private parties, and advise on the govt.'s Best Regional Free Software Master's Thesis prize.

Certifications

12/2015 — Data Manipulation at Scale — Coursera. E-learning
Systems and Algorithms

12/2015 — Introduction to R — DataCamp. E-learning
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12/2011 — Introduction to Artificial Intelligence — Stanford Engineering, KnowLabs. E-learning
Taught by Sebastian Thrun & Peter Norvig; later founder of Udacity and co-author of *Artificial Intelligence: A Modern Approach*, respectively. Got marks in the 98% percentile.

07/2012 — Certificate of English: B2 — Official Languages School (EOI), A Coruña

04/2012 — CS373 — Udacity. E-learning
Programming a Robotic Car

04/2012 — Introduction to Computer Science — Udacity. E-learning
Building a Search Engine

Academic Background

09/17 - Now   **PhD Computer Science (part-time, ongoing)**   Complutense University of Madrid
After my work as a Research Assistant, I enrolled in the PhD program to see through the project and have a greater study on Formal Methods for software verification. Our goal is building a foundation for a methodology for cross-language verification, as part of the CAVI-ART project.

05/16 (1 w.)   **SSFT'16: Summer School on Formal Techniques**   SRI International Inc.
I was selected to participate in this summer school on Formal Methods. Mainly, we covered Deductive verification using Why3, Interactive Theorem Proving using PVS, Pathway Logic, Model Checking and SMT Solvers. Held in Menlo College, Atherton, CA. Sponsored by MINECO/UCM.

08/15 (2 w.)   **Marktoberdorf Summer School**   NATO Science for Peace and Security Programme
Marktoberdorf is a NATO Advanced Study Institute. This year's theme was on Verification and Syntesis of Correct and Secure Systems. We covered mainly Model Checking, SMT Solvers, Program Synthesis from a Game Theory perspective, satisfiability and reachability problems, P vs. NP, and the Complexity in Decision Problems. Partially sponsored by NATO and MADSGroup.

01/15 - 09/16   **Master Thesis' Advisor: VACmatch Mobile**   University of A Coruña / VACmatch
I advised on a master thesis designing and implementing VACmatch Mobile, a progressive web application designed for sports referees using PouchDB, CouchDB and React as main technologies.

2009 - 2014   **Master's Degree in Computer Science**   University of A Coruña
5-year programme. Came among many interesting optional subjects, namely: Design and Implementation of Operating Systems, Protection and Security of Information and Declarative programming.
Master's Thesis: Trustable Distributed Storage over Untrusted Peers (implemented using node.js and React), freely available on bitbucket.

Publications

Ricardo Peña-Marí, Santiago Saavedra, Jaime Sánchez
Processing an IR Written in Lisp
Proceedings of the XVI Workshop on Programming and Languages (PROLE'16)

Other projects

09/18   **Trackula Co-Author**   Trackula.org, Medialab-Prado
Trackula is an attempt to explain in layman's terms what Internet Tracking and behaviour analysis is about. It received the 2nd prize of the Spanish Data Protection Agency's "Emilio Aced" Research Prize.

01/16 - 05/16   **GPUL Labs Coordinator**   GPUL
GPUL Labs was inspired by hacklab ideas, but focused on a specific end-goal project, seeking more engagement from the audience. More info at `https://labs.gpul.org`.

07/2015   **Akademy 2015 Coordinator**   GPUL, KDE Spain & KDE e.V

08/2012   **GUADEC 2012 Coordinator**   GPUL, GNOME Hispano & GNOME Foundation

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