

Sergio García Prado

Software Engineering | Statistics | RPA | Combinatorial Optimization

social

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summary

Hi everyone! I'm a double Bachelor's degree graduate in **Computer Engineering** and in **Statistics** from the University of Valladolid, in Spain. I love to solve complex algorithmic problems, especially those related with **Combinatorial Optimization**. Also, I enjoy applying Mathematical and Statistical approaches to develop amazing solutions. Lately, I'm specially curious about **Sequential Models**, **Architectural Patterns** and the **Rust Programming Language**. One of my biggest hobbies is **Competitive Programming**, which I try to practice as much as possible.

work

2018/06 – present

Software Engineer

Unlimiteck Company Builder

- Build a fully Autonomous and Unsupervised Testing System based on scraping and intelligent navigation from the ground, being able to detect almost all interface changes and schedule navigation paths towards more susceptible bug areas.
- Design and Develop a remote computing protocol, currently used by the company as the standard data sharing strategy.
- Propose and evangelize a Python + VCS packaging strategy around the company, firstly over Subversion and currently over Git
- Take part in a Car Damage Detection system based on image analysis mostly approached with Depth Learning strategies.

Software Engineer Intern

- Design and Develop the implementation of a fully functional Vehicle Routing solving suite achieving results equivalent to another commercial alternatives, but with an easy-to-use and extensible to client requirements design.

2018/03 – 2018/08

Research Assistant Intern

University of Valladolid

- Develop an ETL pipeline fully written in R which helped a Research Group in the task of knowing what vehicle's internal parts have been damaged, given many metrics from the external ones.
- Help speeding up intensive computation functions initially written in R with C++ bindings.

2016/06 – 2016/08

Software Engineer Intern

Brooktec

- Develop a Song Polling plugin for WordPress.
- Maintain already established PHP projects, applying client update requests.

education

2017 – 2020	Statistics Bachelor's Degree, 7.925/10.0	University of Valladolid
2019	Statistics Erasmus+, 28/30	Università di Bologna
2013 – 2017	Computer Engineering, mention in Computation Bachelor's Degree, 7.885/10.0	University of Valladolid
2011 – 2013	Social Sciences High School	IES Alonso Berruguete

projects

2019	Helpacket Open source and collaborative platform against COVID-20	Django + Vue.js
2018 – present	jinete High Performance solving suite for the Pickup and Delivery Problem and its related extensions	Python
2016 – present	ng-katex T _E X math expressions processing on browsers boosted by KaTeX	Angular
2016	TFGraph Graph networks processing on GPUs	Python
2014 – 2016	EvaluateMe Tracker app for your school marks	Android

publications

2020	Scalable solving methods for the Dial-a-Ride Problem Final Degree Project	University of Valladolid
2017	Algorithms for Big Data: Graphs and PageRank Final Degree Project	University of Valladolid

contests

2020	Biweekly Contest 39 199 / 6047 (3.3% top)	LeeCode
	Biweekly Contest 37 99 / 8250 (1.2% top)	LeeCode
2019	Tuenti Challenge 9 61st position	Tuenti

	HashCode 20th of Spain and 801th of the world	Google
2018	HashCode 1th of Hub and 30th of Spain	Google
2017	T3chFest 17th position	UC3M

academic remarks

2019	Statistical Models and Applications Score: 28/30	Università di Bologna
	Advanced Survival Analysis Score: 28/30	Università di Bologna
	Categorical Data Analysis Score: 9.0/10.0	University of Valladolid
2018	Statistical Computing Score: 9.0/10.0	University of Valladolid
2017	Parallel Computing Score: 9.9/10.0 with Honors	University of Valladolid
	Operation Research Models Score: 9.5/10.0 with Honors	University of Valladolid
	Data Mining Score: 9.0/10.0	University of Valladolid
	Machine Learning Techniques Score: 9.0/10.0	University of Valladolid
2016	Codes and Cryptography Score: 10.0/10.0 with Honors	University of Valladolid
	Algorithms and Computing Score: 9.5/10.0 with Honors	University of Valladolid
	Web Services and Systems Score: 9.0/10.0	University of Valladolid
2015	Operating Systems Structures Score: 9.5/10.0 with Honors	University of Valladolid
2014	Fundamentals of Computer Networks Score: 9.0/10.0	University of Valladolid

courses

2018	Language Proficiency - Python 115 coding challenges	HackerRank
	Search and Use of Scientific Information 25 hours	BUVa

2017	Scratch Monitor 12 hours	FUNGE UVa
2016	SG Academy 20 hours	SolidGear
2014	Plastic SCM (Software Control Manager) 8 hours	Codice Software

languages

Spanish
Native Fluency

English
B2 Level (Erasmus+ OLS certificate)

Italian
Elementary proficiency

interests

professional: competitive programming, data analysis, algorithms, machine learning, design patterns, web design, software design, internet of things

personal: motor sports, rap and instrumental music (especially lo-fi beats), turntablism, cooking, biking, technology