SergioGarcíaPrado

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

- Be the core engineer of an Autonomous and Unsupervised Testing System, based on scraping, 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 stablished 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	**EvaluaMe** 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**	FUNGE UVa
	12 hours	
2016	**SG Academy**	SolidGear
	20 hours	
2014	**Plastic SCM (Software Control Manager)**	Codice Software
	8 hours	

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