SergioGarcíaPrado

Software Engineering | Data Science | Research | Scientific Computation

social

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summary

Hi! My name is Sergio and now I'm enrolled in Bachelor's Degree in **Statistics** at University of Valladolid. The reason is because during my Bachelor's Degree in **Computer Engineering** the mathematical curiosity arose me. For this, I think the merge of my previous engineering knowledge combined with my future scientific learning will enrich me to raise and solve complex problems. In following paragraphs I will describe my professional profile.

During my first years of coding I've learned `Java` at University, and `Android` on my own, then I developed **EvaluaMe** app. After that, I started to be curious about web development (I really like `TypeScript`, especially when is boosted with `Angular`). Also, I've worked with `PHP` and `WordPress` during my internship at **Brooktec**, but I prefer not to work with those technologies anymore.

In the writing area, I've started to use LaTeX as a clean way to submit class assignments at University, but it has become one of my passions. Another of my favourite ways to communicate things (especially when code is involved) is `Jupyter Notebook`.

During my Computer's Engineering Degree last year I focused my work on numerical computation, statistical methods, machine learning algorithms and graph problems. Mostly using `Python` and libraries like `NumPy`, `Pandas`, `NetworkX`, etc. Also, in my final degree project of Computer Engineering, I've started an open source project called **TFGraph** which consist of a graph library on top of `TensorFlow`. To learn more about packaging and library distribution I've developed **ng-katex**, an Angular module distributed over `npm` that allows you to visualize TeX math expressions on browsers boosted by `KaTeX`.

Due to my data passion, I want to focus my future work on statistical computation, that is everything related with the research and implementation of new techniques to process, analyze and predict data. For this reason, I've learned `R` language and libraries like `tidyverse`, `data.table`, etc. Currently, I'm involved in learning amazing things related with probability theory, inference techniques, classification methods, multivariate analysis, etc.

In previous paragraphs I've explained my background and favorite technologies that I love to use. Bellow, I'll show you some of my skills in more abstract way:

- High Performance Algorithms
- Data Structures
- Parallel Programming
- Statistical Computation
- Data Visualization
- Machine Learning Techniques
- Graph Theory
- Academic Writting
- Research Work
- Code Standards (OOP - Docs - Tests)
- Agile Methodologies
- Version Control Systems (VCS)

As you've seen I want to work in positions related with Machine Learning, Big Data and Data Analysis. If you're offering for a related job don't hesitate to contact me. In the following pages you can visualize my background in a more classical way.

work

2018/09 – present	**Software Engineer**	Unlimiteck Company Builder
2018/06 – 2018/08	**Software Engineer Intern** 3 months	Unlimiteck Company Builder
2018/03 – 2018/08	**Research Assistant Intern** 6 months	University of Valladolid
2016/06 – 2016/08	**Software Engineer Intern** 3 months	Brooktec

projects

2017 – present	**ng-katex** TEX math expressions processing on browsers boosted by KaTeX	Angular
2017	**TFGraph** Graph networks processing on GPUs	Python
2015 – 2016	**EvaluaMe** Tracker app for your school marks	Android

publications

2017	**Algorithms for Big Data: Graphs and PageRank** Final Degree Project	University of Valladolid

education

2019 – present	**Statistics** Erasmus+	Università di Bologna
2017 – present	**Statistics** Bachelor's Degree	University of Valladolid
2013 – 2017	**Computer Engineering, mention in Computation** Bachelor's Degree	University of Valladolid
2011 – 2013	**Social Sciences** High School	IES Alonso Berruguete

academic remarks

2019	**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
B1 Level (ACLES certificate)

Italian
Elementary proficiency

interests

professional: computing problems, data analysis, algorithms, machine learning, design patterns, web design, software design, internet of things

personal: motor sports, rap and classic music, turntablism, cooking, technology