

Sergio García Prado

junior data { engineer, scientist }

social

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summary

Hi! My name is Sergio and currently I'm enrolled in Bachelor's Degree in **Statistics** at University of Valladolid, Spain. The reason is because during my Bachelor's Degree in **Computer Engineering** the mathematical curiosity arose me. For this reason, 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** at my home, 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** in during my internship at **Brooktec**, but I prefer not to work with those technologies anymore.

In the writting area, I've started to use \LaTeX as a way to submit class assignments in a cleaner way, but it has become in one of my passions. Another of my favorite 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, for 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**.

Because my data passion (and the Statistics degree enrollment) I want to focus my work on statistical computation, that is everything related with data analysis and processing. For this reason I've learned **R** language and libraries like **tidyverse**, **data.table**, etc. Currently, I'm involved in learning amazing probability theory, inference techniques, classification methods, multivariate analysis, etc. to apply all this theory on research of new exciting algorithms of prediction.

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)

work

2016	Full Stack Developer Internship (4 months)	Brooktec
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projects

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

publications

2017	Algorithms for Big Data: Graphs and PageRank Final Degree Project	University of Valladolid, Spain
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education

2017–present	Statistics Bachelor's Degree	University of Valladolid, Spain
2013–2017	Computer Engineering, mention in Computation Bachelor's Degree	University of Valladolid, Spain
2010–2012	Social Sciences High School	IES Alonso Berruguete, Spain

academic remarks

2017	Parallel Computing Score: 9.9/10.0 with Honors	University of Valladolid, Spain
	Operation Research Models Score: 9.5/10.0 with Honors	University of Valladolid, Spain
	Data Mining Score: 9.0/10.0	University of Valladolid, Spain
	Machine Learning Techniques Score: 9.0/10.0	University of Valladolid, Spain
2016	Codes and Cryptography Score: 10.0/10.0 with Honors	University of Valladolid, Spain

	Algorithms and Computing Score: 9.5/10.0 with Honors	University of Valladolid, Spain
	Web Services and Systems Score: 9.0/10.0	University of Valladolid, Spain
2015	Operating Systems Structures Score: 9.5/10.0 with Honors	University of Valladolid, Spain
2014	Fundamentals of Computer Networks Score: 9.0/10.0	University of Valladolid, Spain

courses

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

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