

David Davó Laviña

COMPUTER SCIENCE STUDENT

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«A list is only as strong as its weakest link» – Donald E. Knuth

Summary

I'm a last-year Computer Science student at Complutense University of Madrid, Spain. I've always liked computers, videogames, electronics, and anything that can spark or catch fire. I like both low-level languages like C or Assembly and high-level languages like Haskell. I like to explore new paradigms and learn new things.

Skills

Programming	TeX Intermediate	Languages	English Cambridge Advanced English (C1)
	C/C++ Intermediate		Spanish Native
	OOP Java/Python		Japanese JLPT N4
	Hardware VHDL	Tools	Git, GitHub, GitLab CI/CD
	Scripting Python/Bash		IDE's VIM, Eclipse, VSCode
	Web HTML/CSS/JS/PHP/SQL		Linux User level
Declarative Haskell/Prolog	DS Pandas/Numpy/Matplotlib		
			Quantum Qiskit

Projects

Apprenticeship at GRASIA UCM

Madrid

APPRENTICESHIP

Sep 2021-Dec 2021

- GRASIA: Research on Agent Based, Social and Interdisciplinary Applications
- Research and exploration of Decentralized Autonomous Organizations (DAOs)
- Development of data retrieval scripts and data dashboards (see [dao-analyzer](#))

2021 Google Summer of Code student w/ Haskell.org

Remote

PARTICIPANT

Summer 2021

- Programming in Haskell fixing the module `ihaskell-widgets` from Jupyter's kernel IHaskell.
- Working with dependent types using the `Singletons` library

JustGetMyData.com

Madrid

DEVELOPER

2020-Curr.

- Web with Jekyll on GitHub Pages
- As seen about in media (Vice's Motherboard, Les Numériques, Protonmail...)

Simkl TV Tracker

Remote

3RD PARTY DEVELOPER

2016-2019

- Creation of add-ons to auto-scrobble a TV Show or Movie to Simkl
- Kodi version on Python3 (2016-2017) and Emby version on C# (2018-2019)

InvProy α : A Network Simulator for and by students

Madrid

DEVELOPER

Sep 2015 - Feb 2017

- Part of the "Baccalaureate of Excellence" program
- Code on Python3, Gtk+ GUI, report written in LaTeX
- Winner of the 2nd Pre-grad Meeting of Young Researchers at UCM (2017)

Prizes and Honors

2019	Scholarship , Max Mazín Prizes, VI Edition <i>Madrid Business Confederation (CEIM)</i>	<i>Madrid</i>
2019	Scholarship , Excellence Scholarship for University Students <i>Community of Madrid</i>	<i>Madrid</i>
2018	Scholarship , Max Mazín Prizes, V Edition <i>Madrid Business Confederation (CEIM)</i>	<i>Madrid</i>
2017	2nd Prize , II Pre-grad Meeting of Young Researchers <i>Complutense University of Madrid</i>	<i>Madrid</i>

Extracurricular Activities

Cryptoparty Madrid

Fdi, UCM

ORGANIZATION & SPEAKER

2018 - 2020

- Organised at the Museo del Traje and Círculo de Bellas Artes
- Talk&Workshop “Data destruction: When is too late to encrypt” (2020)

OTEA: Office of Free Software and Open Technologies

TI Vice-chancellor, UCM

COLABORATOR

2018 - Curr.

- “Cool Workshops”: Using \LaTeX , Apollo Guidance Computer: User Mode & Programming, Video Editing with KDElive
- Penguin On Tour: Linux Install Parties
- Collaboration with Cryptoparty UCM

FDIst: FDI Security Team

Fdi, UCM

COLABORATOR

2017 - 2021

- Computer worms competition “Corewar FDI” with finals at AULA (IFEMA).
- Vulnerabilities report of UCMs network
- Phishing campaign to advertise Cryptoparty, using ucrn.es

ASCII: Sociocultural Association of Computer Engineers

Fdi, UCM

ASSOCIATION BOARD

2017 - 2020

- Organisation of Gamersparty, charity event in name of Madrid’s Food Bank
- Creation of web-pages and web-servers in collaboration with OTEA, FDIst and Cryptoparty

Work experience

Research Assistant

Madrid

GRASIA UCM

Jan 2022 - Today

- Continuing the project started on the apprenticeship (see *Projects*)

Education

Degree in Computer Science

Madrid, Madrid

IT FACULTY, COMPLUTENSE UNIVERSITY OF MADRID

2017 - Curr.

- Merit with distinction on the Final Degree Project (21/22): “Network on Chip implementation of a RISC-V processor”
- Merit with distinction on Algorithmic Methods in problem Solving (20/21)
- Merit with distinction on Artificial Intelligence (19/20)
- Merit with distinction on Computer Organization & Design (VHDL Programming) (18/19)
- Average mark of 8.42 over 10

Secondary School

Torrejón de Ardoz, Madrid

IES PALAS ATENEA

2015 - 2017

- Participant on the “Baccalaureate of Excellence” program