



Mario Varona Bueno

Computer Science Student



Spanish
Mother tongue



English
C1, OLS, 2019
B2, Cambridge FCE, 2016



German
B2, Julius-Maximilians-Universität
Würzburg, 2020



About me

I have always been amazed by the possibilities offered by technology to change and improve people's lives.

Both self-taught and traditionally, I have learned about data structures, algorithms, programming languages, communication, economy, marketing or psychology to achieve it.

With discipline, lifelong learning, passion for software and teamwork, I would like to build accessible, usable, efficient and sustainable technology that enhances people's lives and inspire them to trust themselves.



Education

Western University (2016)

London, Canada - English summer school at Huron College
1 month stay.

University of Salamanca (2017 - 2021)

Salamanca - Computer Science Degree
Average high school scientific baccalaureate grade: 9.29/10 (3.65/4 GPA).
Average degree grade: 8.09/10 (3.05/4 GPA) (as of February 2021).

Member of the ACM USAL chapter since 2018.

Bachelor thesis: Integral system to make on-board payments on public transport with and without NFC, platform to manage it, environment to test it, app to calculate avoided CO2 and platform to notify user.

Julius-Maximilians-Universität Würzburg (2019 - 2020)

One-year stay on Würzburg, Bayern, Germany

Munich University of Applied Sciences (2020)

Computer Networking and Secure Network Management



Experience



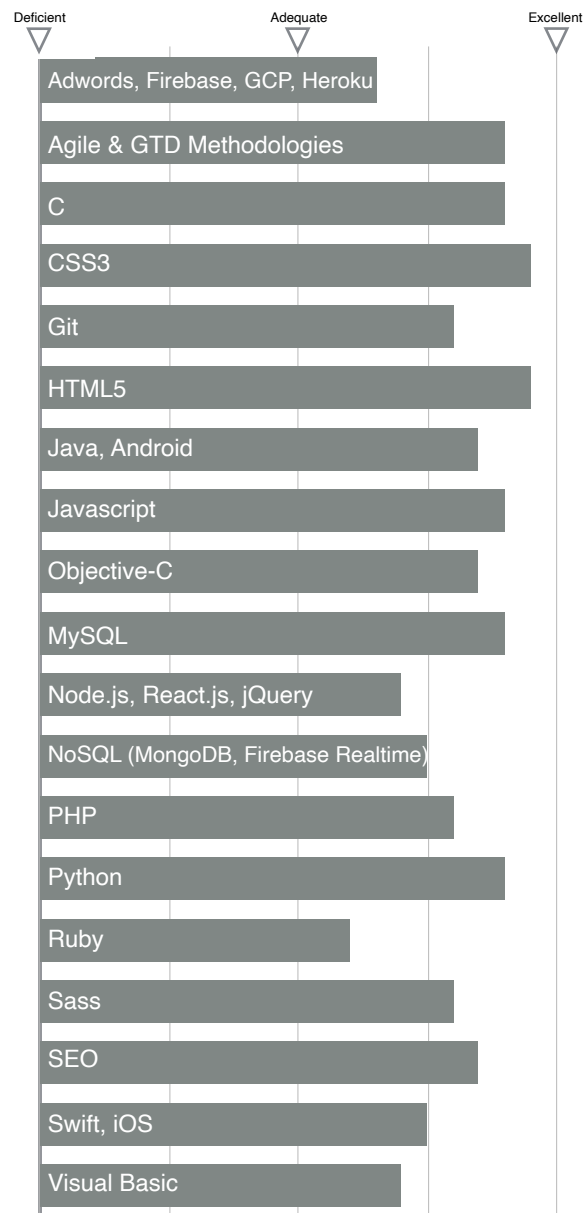
6-months Internship at BadgerMaps, Inc. (2021) <https://www.badgermapping.com>

Curricular and extracurricular internships at the californian start-up BadgerMaps, Inc. through its engineering branch ZenZorrito Tecnologías S.L. Work on Mobile devoted to code and making decisions for the iOS and Android apps.

Technologies and techniques used: TDD, BDD, SOLID principles, Clean Code, Clean Architecture, Continuous Integration.



Skills



Contacto

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in [MarioVarona](#)

github [mvarona](#)



Experience



ElPisoDeBilbao.com (2013 - 2014)

Website built from scratch to promote a family residence on sale.

Technologies and techniques used: HTML5, CSS3, responsive web design, Javascript.

Alexia 3.0

Alexia 3.0 (2014)

Operational concept prototype for a possible future version of *Alexia*, the platform for the education sector by *Cospa&Agilmic*. After holding a meeting with its development team, the multinational company included some features from the prototype on the next *Alexia* version.

Technologies and techniques used: HTML5, CSS3, responsive web design, Javascript, elevator pitch, copywriting.



BMS - App for the Metropolitan Bus of Salamanca (2015 - ...) <https://bmsalamanca.com>

First multi-platform app for the public intercity transport of Salamanca.

It has three components: Android app, iOS app and online platform used by the managing company *Autobuses Salmantinos* to upload notices about routes and convert them to PDF for its later view by users on the app.

Since 2016 it is supported by *Grupo Avanza-ADO* as the only official way to access, store and manage notices about routes for its filial company *Autobuses Salmantinos*.

Since 2018 it is the only way to check the ETAs for each stop. This calculation is provided by an own algorithm which takes into account usual traffic, distance between stops, rush hours or special events, and it is offered through an in-app purchase.

Technologies and techniques used: Objective-C, Java, PHP, MySQL, JSON, Firebase, HTML5, CSS3, Javascript, elevator pitch, copywriting, digital networking & marketing, Google Adwords, Adsense, Cloud.



CamerataSalmantina.es (2016 - ...) <http://cameratasalmantina.es>

Responsive design web, which offers a great flexibility and speed to keep up to date dynamic content; as galleries or calendars with past and future events, and static content; as information pages or specific landing pages.

Technologies and techniques used: HTML5, CSS3, responsive web design, Javascript, PHP, JSON, digital editing.



Courses

- iOS foundations for iPhone and iPad - KeepCoding
- Advanced iOS programming - KeepCoding
- Swift 3.0 foundations - KeepCoding
- Artificial Intelligence Foundations. Machine learning and neural networks - University of Salamanca
- Naming strategies: Naming your brand - Crehana
- A technological vision for business people - Udemy
- Android programming from scratch - KeepCoding
- The Complete 2020 Web Development Bootcamp - Dr. Angela Yu, London App Brewery - Udemy
- Complete 2020 Data Science & Machine Learning Bootcamp - Philipp Muellauer, Dr. Angela Yu, London App Brewery - Udemy
- iOS & Swift - The Complete iOS App Development Bootcamp - Dr. Angela Yu, London App Brewery - Udemy
- IV Cybersecurity Conference - Pontifical University of Salamanca
- Python with Django - Telefónica ProFuturo Foundation



Volunteer experience

- **Private English lessons**
 - Nov. 2016 - Feb. 2017
 - Hermanas Josefinas de la Santísima Trinidad Residencia Sagrada Familia, Salamanca
 - Training and support to achieve the final Senior-High-School level



Experience



AngelesCaidosEILibro.com (2017 - 2019)

Backend platform to manage and send an ebook on demand. Frontend web based on WordPress.

Technologies and techniques used: PHP, HTML5, CSS3, WordPress.



MemKey - The memes keyboard! (2018 - ...)

<https://bmsalamanca.com/memkey>

Mobile application as a custom keyboard for iOS and Android smartphones and tablets that allows users to search a meme through a third-party API and use it or share it on any app.

Technologies and techniques used: Objective-C, Java, REST API, JSON, HTML5, CSS3, Javascript, copywriting, social media, digital networking & marketing.



BurndownChartist (2019 - ...) [https://](https://burndownchartist.appspot.com/)

burndownchartist.appspot.com/

Open source web hosted on Google Cloud App Engine and connected to productivity app Todoist's API to produce a burndown chart for the specified project, date and options.

Technologies and techniques used: React, REST API, JSON, HTML5, CSS3, Google Cloud, digital networking & marketing.



Contribution to Open Source Project:

Alf.io (2019) <https://alf.io/>

Translation of almost the entire project from English to Spanish.

Technologies and techniques used: Heroku.



Deleted!

Contribution to Open Source Project:

Sweet Alert iOS (2019) <https://github.com/mvarona/SweetAlert-iOS>

Fork from the *Sweet Alert iOS* project in order to adapt it to Swift 5.

Technologies and techniques used: Swift.



CartasContraLaHumanidad.es (2019 - ...)

<http://cartascontralahumanidad.es>

Adaptation from an open source multiplayer online card game, hosted on Heroku and which is the first alternative to play the popular board game *Cards Against Humanity* online in Spanish.

Technologies and techniques used: React, Websockets, Heroic, HTML5, CSS3.



Honors and awards

• TCUE Market-Driven Prototypes Contest 2021 Award

- First prize within the Science School and third within the University of Salamanca, including the campuses from Ávila, Béjar and Zamora, on the Market-Driven Prototypes Contest promoted by the Knowledge Transference Program University-Business for the bachelor thesis "Mobile-payment and customer-loyalty system on buses". The prize relates to support and training to carry out a business plan following the lean startup methodology, and mentoring for the release of a complete and marketable final product.



Experience



FundHabit (2020 - ...) <https://mvarona.github.io/FundHabit>

Tool to incentive and track the habits' achievement through fictional-money contributions to two funds. Open source project hosted on Github Pages.

Technologies and techniques used: HTML5, Cookies, CSS3, Javascript, Github Pages.



Iberdrolux (2020 - ...) <https://mvarona.github.io/iberdrolux>

Calculator for *ad hoc* electricity plans, which makes use of previous own hourly consumption data obtained from Iberdrola Distribución Eléctrica (i-de.es). Open source project hosted on Github Pages.

Technologies and techniques used: Python, Github Pages.



CoViDCyL (2020 - ...) <https://mvarona.github.io/CoViDCyL>

Tool to explore online all the data from the set 'Illness rate by basic health zone' over the CoViD-19 incidence on Castile and Leon. It includes a Siri Shortcut to ask her for the current and accumulated incidence at the desired zone. Open source project hosted on Github Pages.

Technologies and techniques used: PHP, API REST, JSON, HTML5, CSS3, Javascript, Github Pages.



Todayist (2020 - ...) <https://mvarona.github.io/todayist>

A natural 12-hours-clock to visualize all today tasks from Todoist. Open source project hosted on GitHub Pages.

Technologies and techniques used: API REST, JSON, HTML5, CSS3, Javascript, Github Pages.



MarioVarona (2020 - ...) <https://mariovarona.dev>

Personal website developed from scratch with a modular approach in which the components are dynamically built based on a JSON file through a Python script. Open source project hosted by Github Pages.

Technologies and techniques used: Python, JSON, HTML5, CSS3, Javascript, Github Pages.