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Work experience

Researcher, developer – ESALab · 02/2021 – 08/2021

- Back end APIs development using Node.js, PM2, Socket.io, MQTT and Heroku for a real-time application.
- Full stack web development with responsive design, using the MEVN stack for a real-time web application. The CTO loved how it came out.
- Implementation of an open specification serial protocol in Python, designing a framework around it to facilitate the interaction with an RFID tag reader via WebSockets.
- ROS development in C++ for Arduino Nano and ESP32 boards. It involved front end development with HTML5, CSS3 and JavaScript, to create a webpage that allows the user to manage the robot in real-time.
- GNU/Linux systems administration.

Curricular internship: Software developer – ESALab · 07/2020 – 10/2020

- Adaptation of a tool to detect and notify the compliance with social distancing rules in pedestrian streets to be deployed on a Jetson TX2. Used TensorFlow in Python3.
- Web application pentesting: Found and fixed several SQL injection and XSS vulnerabilities on LAMP servers.
- Front end development using HTML5, CSS3 and JavaScript to create a webpage to manage barcodes.
- Hosted an Ethical Hacking: Real-life pentesting with HackTheBox, live on Twitch.

Education

University of Salamanca (USAL) · 09/2017 – 07/2021

- Computer Engineering Degree. Average grade: 7.54/10 (3.016/4 GPA). End-of-degree project grade: 9/10. Technologies used and learned: C, C++, Python, Java, Junit, Tomcat, Bash, Git, GitHub, Kanban, JavaScript, Node.js, Express.js, Vue.js, SQL, MongoDB, Postman, HTML5, CSS3, Arduino, TCP/IP, DNS, VLAN, WLAN.

IES Mateo Hernández · 09/2015 – 06/2017

- Average high school scientific baccalaureate. Average grade: 7.06/10 (2.824/4 GPA). Elected as the class representative every year.
- 1 week education abroad at Broadstairs, England.

Projects, activities, and awards

- TCUE Market-Driven prototypes contest 2021 award and scholarship program.
- Javiervidrua.github.io: A personal webpage made with Bootstrap and hosted on GitHub pages. Contains a blog made with Jekyll, to which I post articles about the things I learn (sysadmin, DevOps...).
- URL shortener made with Python and Django, hosted on javiervidrua.pythonanywhere.com. Source code in my Github.
- Netdrop: Airdrop like tool made in Python using P2P technology. Fast and secure. Source code in my Github.
- Exploithelper: A command line tool made in Python to facilitate the development of buffer overflow exploits. Source code in my Github.
- Autoconfiguredns: Script written in Bash that installs and configures a Bind9 server on your Debian-based system so in a matter of seconds, you have your own DNS server up and running. Source code in my Github.

Languages

- Spanish: Native
- English: Proficient (B2, 2015)