**VINICIO ALEJANDRO NARANJO MOSQUERA**

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**PROFESSIONAL EXPERIENCE**

**2023-2024 Programming Teacher.**

**2022-2023 Freelance: Software Developer**

* Use of Python in back-end application development and cybersecurity, combined with React Native on the front-end to create attractive and functional user interfaces.
* Experience in ChatGPT engineering for developers, specifically with GPT-4.
* Versatile web developer with skills in Django, React Native, C#, Entity Framework, Dapper, Windows server, JavaScript, Jquery, HTML, CSS, Bash and Aws.
* Familiar with AI tools like GPT-4 and GitHub Copilot for optimizing the development and deployment of AWS cloud applications.
* Experience in designing and implementing database management systems, with a deep understanding of object-oriented and functional programming principles.
* Proficiency in AWS services, including EC2, S3, and VPS.
* Over 10 years of experience in hardware reverse engineering, complemented by competencies in programming and desktop support.
* Record of successful projects and challenging problem-solving thanks to a combination of reverse engineering experience and programming skills.

**2022-2022 Junior Programming**

* Designing and development of an aplication for Stock electronic laboratory control.  
  Using of programming languages: PHP, JavaScript; Jquery, AJAX, MySQL, Java.
* Designing of Data Base structure.
* Researching of new languages: Rust, Python, C, C++.

**2017-2022 Electronic Technician in JZ Recielca**

* Use of reverse engineering as a tool for the diagnostic and repairing of fork lift

failures.

* Customer Service for whole diagnostic of failures.
* Home assistance for repairing by order of the customers.
* Diagnosis and repairing of speed controllers for DC motors and frequency inverters.
* Manufacturing of fork lift electrical wiring.

**2016-2017 Electronic Technician in Tryo Aerospace**

* Assembly of FM equipment (SMD manual welding) Microscope welding.
* Work under ESA Regulation guideslines:
  + ECSS-Q-ST-70-08C (THD Welding)
  + ECSS-Q-ST-70-38 (SMD Solder)
  + ECSS-Q-ST-10-09 (Warranty Non-Conformities)

**2014-2016 Electronic Technician in HP Inc**

* Designing of PCB with Cadence Software.
* Manufacturing of PCBs (LPKF Protomat S43 and Protomat S103 Milling Machine).
* PCB assembly with the required electronic devices.
* SMD welding with microscope.
* Testing and repairing of PCBs with automated Ersa Rework Hibrid.
* Repairing by reballing techniques of microcontrollers.
* Manufacturing and assembly of electrical circuits for new printer devices.
* Control and management of laboratory stock.
* Designing and manufacturing cables for electrical wiring printers. Industrial

connectors used: DB9 family, Picospox, milligrid, spox, minifit JR, minifit Sr, microfit,

sable, super sable, KK, Maten'look...)

**ACADEMIC CAREER**

2023 Course part of data science degree in introduction to artificial intelligence

Educational Center: UOC

2023 Master: Cyber Security.

Educational Center: Unir.

2022 Bachelor technician: Development of multiplatform applications.

Educational Center: Ins Calamot.

2013 Bachelor technician: Electronic Maintenance.

Educational Center: Ins Camps Blancs

**Languages**

Spanish: Native

English: Technical

Catalan: C1

**PROGRAMMING LANGUAGES**

Bash, Python, JQuery, SQL, JavaScript, HTML, CSS, C, C++, C#, Java, Php, Bootstrap, Dart, Rust.

****PERSONAL PROJECTS****

#### ****Self-Built Smart Home System****

#### **Designed and constructed** a smart home system utilizing **Raspberry Pi** and **ESP32** as primary controllers.

#### Implemented **MQTT communication** to interconnect devices and enable efficient real-time communication between them.

#### Developed a **mobile application** for remote control and monitoring of devices within the home.

#### Established a **VPN connection** for secure remote access to the system, ensuring data protection and privacy.

#### Integrated multiple sensors and actuators to perform specific functions.

#### ****eCommerce Platform on AWS****

* Developed an eCommerce platform using Django as the backend, hosted on AWS (Amazon Web Services).
* Secured the entire platform, implementing best practices to protect user data and transactions.
* Constructed the frontend using React Native, enhanced with essential libraries such as Redux for state management, Secure Store for secure data storage, and AsyncStorage for asynchronous, unencrypted storage.
* Established HTTPS communication between frontend and backend, ensuring data encryption and secure data transfer.