VINICIO ALEJANDRO NARANJO MOSQUERA

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PROFESSIONAL EXPERIENCE

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.