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Summary

I'm a Computer Engineer from Spain with a degree from the [University of Alicante](#) (2023). I specialized in computing and have a passion for functional programming, software engineering, and machine learning. I love tackling challenging problems and learning new technologies.

Skills

- **Languages:** Python, Rust, C#, TypeScript, C, C++, Java, Kotlin, Elixir
- **Web Technologies:** HTML, CSS (Tailwind), JavaScript (Svelte), SQL
- **Frameworks & Tools:** Docker, Bash, Unity, AWS, Phoenix
- **Machine Learning:** PyTorch, scikit-learn, Pandas
- **Operating Systems:** Windows, Linux (including NixOS and TrueNAS SCALE for homelab management)
- **Others:** Functional Programming

Experience

Multimedia Chefs

Software Engineer | 2019 - Present | Hybrid, Full-time

- Engineered an autonomous owl nest surveillance system, leveraging Raspberry Pi and solar power to stream live footage to YouTube.
- Developed an AWS-based pipeline for generating automatic timelapses of construction sites using surveillance camera feeds.
- Created a VR application for neurocognitive disorder diagnosis in collaboration with the University of Alicante and Hospital General Universitario de Alicante.
- Utilized technologies such as NixOS, Elixir and Phoenix, Rust, Svelte, and TailwindCSS to enhance multimedia solutions for clients.

Tech4diet

Machine Learning Engineer | 2023 | Part-time

- Spearheaded a machine learning project to predict future body shapes for weight-loss treatments, utilizing Python, Pandas, scikit-learn, and PyTorch.
- Achieved the highest possible score for this project in the degree final assessment.

Projects

Autonomous Owl Nest Surveillance

- Designed and implemented a solar-powered system using Raspberry Pi, 4G router, and custom VPN setup to stream live RTSP feeds to YouTube.
- [Featured in News Article](#)

VR-based Neurocognitive Disorder Diagnosis

- Developed a Unity-based VR application for Oculus Quest 2 to assist in diagnosing neurocognitive disorders.
- [Project Details](#)

Reinforcement Learning for Autonomous Driving

- Created a reinforcement learning agent using Proximal Policy Optimization (PPO) and ROS to navigate a simulated car through a circuit.
- Achieved top score in the competition.
- [Demo Video](#)

Future Body Shape Prediction

- Applied machine learning techniques to predict body shape changes during weight-loss treatments.
- [Project Repository](#)

Education

- **Computer Engineering Degree** (High Performance Group, Computing Specialty) | [University of Alicante](#), Spain | 2023
- **Computer Engineering Exchange Program** | [University of Waikato](#), New Zealand | 2019

Additional Information

- **Languages:** Spanish (Native), English (C1, Cambridge FCE), Mandarin Chinese (Beginner)
- **Scouting:** Former scout leader at GS Gilwell, Alicante (4 years)