Andreu Gimenez Bolinches

✉ esdandreu@gmail.com   in   🌐   📑   ○   ⩔

I want to invest my time in projects that can make a better place to live for the current and future generations. Either by seeking more efficient and sustainable solutions to actual problems or by developing technologies that intend to restore the damage we cause to the environment. I am a fast learner. Many of my programming skills are self-taught. That gives me an edge in time-limited problems like hackathons and sprints. I am a team player. Neither handball, business, nor competitions can be won alone.

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Experienced Full Stack Engineer with over 5 years of demonstrated expertise in building scalable, maintainable, and high-performance SaaS products. Proficient in modern web technologies including React, TypeScript, and backend API design with microservices architecture. Skilled in cloud infrastructure (AWS), CI/CD pipelines, and DevOps practices. Adept at designing system architecture from MVP to large-scale deployment. Strong collaborator passionate about user-focused engineering and climate tech innovation.

💼 Experience

Dotphoton - Software Engineer   3 years
October 2022 - Present — Remote
  - Lead engineer for Jetraw, a multi-storage data management platform achieving 8x image compression.
- Architected and implemented full stack solutions using C++, Go, TypeScript, and Python.
- Developed RESTful APIs, C shared libraries, and Node Addons, optimizing interoperability and system scalability.
- Designed cloud-native CI/CD workflows using GitHub Actions and Jenkins to automate robust deployment pipelines.

ProntoPro - Marketing Automation Specialist   7 months
October 2020 - April 2021 (Part-time) — Remote
  - Integrated multiple marketing automation tools with an in-house MySQL database using Python, pandas, and SQLAlchemy.
- Implemented automated testing with pytest and GitLab CI/CD. - Managed projects and led a team of junior engineers.

ProntoPro - Marketing Automation Engineer   11 months
November 2019 - September 2021 — Milan, Italy
  - Implemented data acquisition pipelines with web scraping tools into an in-house MySQL database.
- Delivered a full-stack web application with Django and React used as an internal marketing tool.

Stadler Rail Valencia - Software Engineer   6 months
September 2018 - Feb 2019 (Part-time) — Valencia, Spain
  - Developed predictive maintenance software with MATLAB, including GUI design.

🏛 Education

M.Sc.Eng. Advanced Robotics   Keio University   2021 - 2022
- Developed a machine learning pipeline for motion estimation from audio sensors: Acoustic Odometry.
M.Eng. Automatics and Robotics   Warsaw University of Technology   2020 - 2021
B.Eng. Aerospace Engineering   Universitat Politècnica de Valencia   2015 - 2019
- Exchange student in Embry-Riddle Aeronautical University (2018) and Hogeschool van Amsterdam (2019).
- Designed & built an Unmanned Aerial Vehicle that is capable of flying in a predetermined route and drop a small payload.

Additional Information

💬 Languages: English (Fluent, TOEFL 99 IBT), Spanish (Native), Catalan (Native).
🏆 Hackathons:
- Winner of the Junction Hackathon 2019, Effective Radiation Therapy Plan Review challenge.
- Winner of the Hackathon Castellon 2017, AI-Machine Learning challenge and most popular project.
- James Dyson Award 2018 national finalist with a sustainability project: EOGU, the eolic panel.

References on request