

# Andreu Gimenez Bolinches

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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.



User-focused Software Engineer with over 5 years' experience designing and delivering scalable, maintainable, and high-performance software products from the ideation phase. Proven expertise in frontend development with React and TypeScript, backend architecture with PostgreSQL, OpenAPI and Golang. Skilled in AWS cloud infrastructure and infrastructure-as-code with Pulumi. Experienced in CI/CD pipelines with Jenkins and GitHub Actions. Adept using the right tool for the job, combining performance critical applications in C++ with graphical and programmatic interfaces using Electron and Python. Passionate about leveraging technology for climate impact, with a track record of thriving in fast-paced, ambiguous environments.

## 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**

2021 - 2022

- Developed a machine learning pipeline for motion estimation from audio sensors: [Acoustic Odometry](#).

### **M.Eng. Automatics and Robotics**

2020 - 2021

### **B.Eng. Aerospace Engineering**

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