Andreu Gimenez Bolinches

esdandreu@gmail.com   in   🛠   ⊙   ⩓   Valencia, Spain

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.

SKILLS

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 wiht 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 — Full Stack Software Engineer   3 years
October 2022 - Present
- 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 — Full Stack Software Engineer in Marketing Automation   7 months
October 2020 - May 2021 (Part time)
- 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 — Junior Full Stack Software Engineer in Marketing Automation   11 months
November 2019 - October 2020 — 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 — Junior Software Engineer   6 months
September 2018 - Mar 2019 (Part time) — Valencia, Spain
- Developed predictive maintenance software with MATLAB, including GUI design.

EDUCATION

Master's of Science — Advanced Robotics (Computer Science)   2021 - 2022
Keio University — Tokyo, Japan
- Developed a machine learning pipeline for motion estimation from audio sensors: Acoustic Odometry.
Master's of Engineering — Automatics and Robotics   2020 - 2021
Warsaw University of Technology — Warsaw, Poland
Bachelor's Degree — Aerospace Engineering   2015 - 2019
Universitat Politècnica de Valencia — Valencia, Spain
- 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