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Munich, Germany

Nationality: Swiss/ Spanish

in www.linkedin.com/in/jomifi

www.mfjorge.de

Languages

Spanish - Native

English - Fluent

German - Proficient

Skills

Quantitative & Analytical Skills

Quantitative Finance, Time
Series, Financial Econometrics,
Derivatives, Risk Modeling

· Software Engineering

Python, C#, .NET, TypeScript,
OOP, Test-Driven Development

· Data & Web Technologies

SQL, PostgreSQL, InfluxDB,
MongoDB, REST APIs, Angular,
React

• Tools & Practices

• Git, Docker, Agile, Unit Testing

Other

 Basic knowledge of Blockchain and DeFi (in progress)

Jorge Miralles Filippini

Software Engineer | MSc. Computational Mechanics Quantitative Finance (in progress)

About me

Quantitative-minded software engineer with a strong foundation in applied mathematics and computational mechanics. Experienced in fullstack development, control systems, and simulation environments, including R&D in reinforcement learning for robotics. Currently pursuing a Master's in Quantitative Finance with focus on financial econometrics, derivatives, and risk modeling. Strong analytical mindset with over 5 years of combined academic and professional experience in Germany, and known for combining technical depth with strong communication skills and a global, people-first mindset.

Experience

Software Engineer / Consultant

2023 - Present | ITQ GmbH, Munich, Germany

- Contributed to a **fullstack industrial automation** system using **C# and** .NET8, focusing on control logic, hardware interfacing, and backend development within a **microservices** and **OOP** architecture.
- Developed a fullstack HMI application for an automotive production unit using Angular, Node.js, PostgreSQL, InfluxDB, MQTT, and Grafana.
- Conducted research on **Reinforcement Learning** applications in robotics, developing custom simulation environments and control strategies.

Junior Software Engineer

2022 - 2023 | ITQ GmbH, Munich Germany

• Focused on R&D for novel Reinforcement Learning Al agents in simulation environments using Python.

C++ Tutor

2021 - 2022 | TUM Chair of Computational Mechanics, Munich, Germany

- Taught Object-Oriented C++ to master's students.
- Provided guidance and feedback on programming assignments and projects.

Education

Master in Quantitative Finance

UNED - Madrid, Spain (Remote) | 2024 - Present

 Focus on financial econometrics, financial mathematics, quantitative modeling and computational methods applied to asset pricing and risk management.

MSc. in Computational Mechanics - Graduated with Merit

Technical University of Munich (TUM), Germany | 2020 - 2022

- Focus on Applied Mathematics, Numerical Methods, Stochastic Modeling, and High-Performance Computing for Simulation and Risk Analysis.
- Master's Thesis: Reinforcement Learning in Simulated Environments for Robot Control.

BEng. in Mechanical Engineering

Carlos III University of Madrid, Spain | 2016 - 2020

- Bilingual Bachelor: Spanish + English
- ERASMUS: TU Dresden (2019 2020).