

Iago Mosquera

Senior Software Engineer, Architect

Summary of Qualifications

- **EU Citizen. No sponsorship required**
- Scalable Backend Engineering (TypeScript, Python)
- Modern React Ecosystem
- API Design (REST, GraphQL)
- Industry-standard Frameworks (NextJS, Django, Flask)
- Git source control
- Agile delivery and stakeholder management
- Infrastructure as Code (IaC)
- Quality Assurance (Vitest, Cypress)
- SQL Databases (PostgreSQL)
- NoSQL (MongoDB)
- Remote-enabling technologies (Slack, Jira, Notion)
- Data visualizations

Contact info:

Tel: 083 843 2255

Email: iago.mosquera.creo@gmail.com

Web: philomathy.net

Address: Cherrywood
Dublin 18, Ireland

Professional summary

I am a Senior Software Engineer with over 12 years of experience in the industry. Highly skilled Full-Stack Engineer with extensive experience in designing and developing secure, high-performance applications and web services.

I'm a specialist in bridging cloud-based architectures with modern front end ecosystems, with a strong focus on compliance, scalability and automation.

Proven track record as a Certified Scrum Master, leading cross-functional teams, fostering collaboration and agile development.

Expert in building enterprise solutions for industries such as automotive, telecommunications, MedTech, and IoT, with a knack for strategic planning.

I am adept at integrating production-grade ML models, developing interactive dashboards, and optimizing infrastructure with cloud and DevOps tools, I'm eager to dive in to new challenges.

I'm committed to hybrid roles in Dublin, although I am also prepared to support *future-of-work* initiatives for organizations already operating with fully remote, digital-first teams.

Work experience

12 years in the industry

Arden Energy

Competences: TypeScript, Python, NextJS, Ansible, Terraform, Cloud Infrastructure (AWS Ecosystem), FinOps, UI UX Design

Senior Full stack Engineer, Platform Architect

2025 - Jan 2026

- ◆ Architected and implemented a scalable payment rails and audit-compliant systems.
- ◆ Architected a mission-critical automated pipeline to ensure ESB compliance for energy readings and cashflows.
- ◆ Wrote a performant web app to handle GDPR compliant customer data, and processing up to 700k daily energy readings.
- ◆ Orchestrated AWS cloud deployment of containerized services, with an eye to cost monitoring and avoiding most vendor lock-in by use of platform-agnostic protocols.

HiQ

Senior Full Stack Engineer Consultant

2017 - 2024

- ◆ Embedded within multiple high-impact projects across industries, delivering scalable and efficient software solutions.
- ◆ The consultant work performed during my multi-year tenure with HiQ is indicated next to each relevant entry.

Scania

(on assignment for HiQ)

Competences: TypeScript, NodeJS, React, Python, GraphQL, Ansible, Docker, CI/CD, Apache Spark, Keycloak, AWS: S3, AppSync, Databricks, UX Design, Team Leadership

Senior Full stack Engineer, Cloud Data Engineer

2023/04 - 2024/03

- ◆ Led the development of secure web applications for autonomous vehicle data visualization, leveraging React, AWS AppSync (GraphQL), and Databricks to enhance data processing and decision-making.
- ◆ Developed high-performance data pipelines on Databricks, streamlining data ingestion and transformation processes.
- ◆ Engineered production ready dashboards with Databricks, optimizing data mining and analysis workflows for operational efficiency.
- ◆ Orchestrated ML lifecycle (MLOps) from ingestion to inference in order to automate event identification, increasing analytical accuracy by 20%.

- ◆ Streamlined cloud deployments by refining Ansible and Terraform configurations, ensuring reproducibility and scalability.
- ◆ Facilitated sprint stand-ups, retrospectives, and product demos as a Scrum Master, coordinating with stakeholders and POs.

Emblasoft AB

(on assignment for HiQ)

Competences: JavaScript, React, REST APIs, Design Systems, Storybook, VMEs, UI UX Design

Senior Application Engineer, Front end Architect

2021/06 - 2023/02

- ◆ Engineered a React-based single-page application (SPA) that unified access to Emblasoft's tool suite
- ◆ Use of this app improved efficiency for installation engineers, reducing setup times from days to hours.
- ◆ Drove the UI design, considering UX workflow, and simplifying tool access and enhancing user experience for technical teams.
- ◆ Developed a custom node-based network visualization UI tailored to the client's unique requirements, increasing data clarity.
- ◆ Architected API integrations for Emblasoft's toolchain, ensuring seamless interoperability and extending system capabilities.

Werlabs

(on assignment for HiQ)

Competences: TypeScript, React, Storybook, Jenkins

Senior Application Engineer

2021/02 - 2021/05

- ◆ Developed a high-performance appointment booking frontend using React, TypeScript, and Tailwind CSS, improving accessibility and user experience.
- ◆ Implemented scalable UI components using Storybook, ensuring consistency and optimized HTML across the platform.
- ◆ Integrated frontend updates with backend Continuous Delivery pipelines, enhancing feature rollouts and system stability.
- ◆ Applied strong web fundamentals, by leveraging a solid design system framework.

Ericsson

(on assignment for HiQ)

Competences: Python, SQL, Apache Kafka, Apache NiFi

Data Engineer

2020/03 - 2020/12

- ◆ Built a Python backend for a predictive fault forecasting system, enhancing proactive issue resolution and system reliability by over 60%.
- ◆ Integrated machine learning models to optimize failure detection and forecasting based on real-time data analysis.
- ◆ Contributed to the design and implementation of a microservice-based architecture, aligning with client scalability needs.

Ericsson

(on assignment for HiQ)

Competences: JavaScript, Python 3, Big Data, MongoDB, React, D3.js, SASS, RabbitMQ, UI UX Design

Full stack Developer

2017/11 - 2019/12

- ◆ Developed a full-stack monitoring system for Ericsson's CI messaging infrastructure, improving real-time observability.
- ◆ Implemented a robust REST API using Flask, facilitating seamless data exchange between the visualization frontend and backend services.
- ◆ Created dynamic dashboards with D3.js, enhancing data-driven decision-making for stakeholders.
- ◆ Engineered a backend service in Python for ingesting MQTT messages, ensuring high throughput and low latency.
- ◆ Developed an interactive frontend using React and SASS, improving system usability and responsiveness.
- ◆ Optimized database management with MongoDB, enabling efficient availability of data structures across the organization.

Giesecke & Devrient

Competences: Scrum, Agile

Scrum Master

2016/11 - 2017/07

- ◆ Managed and mentored a team of 7 to 12 developers, driving agile best practices and improving collaboration.
- ◆ Facilitated sprint stand-ups, retrospectives, and product demos, ensuring alignment with business goals.
- ◆ Supported the Product Owner in project administration, refining backlog prioritization and feature delivery.

Giesecke & Devrient

Competences: Java, Spring Boot, Docker, Couchbase, Jenkins

Developer, Back end

2013/09 - 2017/07

- ◆ Developed and maintained a robust system for managing mobile subscriptions, optimizing embedded and M2M use cases.
- ◆ Designed scalable backend solutions in Java, improving system performance and maintainability.
- ◆ Implemented microservices architecture using Spring Boot, enhancing modularity and reusability.
- ◆ Integrated the Couchbase NoSQL db, for efficient data storage and retrieval, reducing latency and increasing scalability.

Education

Degree in Computer Science

2012

Universidad de Santiago de Compostela

Degree in Computer Science in the branch of Systems Engineering. (comparable to NFQ Level 9)

International Exchange program - technical studies

2012

Politechnika Gdańska (Gdańsk University of Technology)

Technical Studies abroad in Computer Graphics and Visualization Methods as part of the ERASMUS exchange programme in Gdańsk, Poland.

Videogame creation with Unity

2014

SEAS, (Estudios Superiores Abiertos)

End-to-end production course in videogame creation with the Unity engine.

Courses and Certificates

- ◆ Scrum Master by Scrum Alliance
- ◆ Google Cloud Platform - FCI