MAURO **C**OLELLA

SENIOR FULL-STACK ENGINEER

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Senior Full-Stack Engineer with over 15 years of experience building high-performance systems across cloud and data engineering and machine learning domains. Proven track record of delivering scalable solutions and boosting business growth. Fluent in **English, French, and Italian.** Certified with **MIT (data science), AWS** and **Google Cloud**. Currently advancing management and leadership skills through **MSM/MBA studies at UIUC Gies**. Extensive remote work experience (Slack, Zoom, Meet) and strong commitment to remote work ethics.

Technical Expertise

Full-Stack Development

- **Front-End: React**, Vue, Angular, **TypeScript,** JavaScript, Next.js / **Back-End:** Node.js, Java, **Python,** PHP, Rust, Ruby, C++, C# / **APIs:** REST, GraphQL, Apollo, Relay

Cloud and DevOps

- **AWS, Google Cloud, Azure /** Kubernetes, Helm, **Docker /** MLOps, DataOps, Cloud Architecture / Jenkins, **Git**, GitHub/Gitlab CI, CircleCI

Data and ML

- **PostgreSQL**, MySQL, NoSQL, ELK / **Data Engineering, Data Science** (MIT Certified) / Python, PyTorch, TensorFlow, Vertex AI / **LangChain, LLMs, OpenAI API**

Frameworks and Systems

- WebAssembly (Wasm), Microservices / **Agile**, Scrum, TDD (Test-Driven Development) / Git, Linux, NixOS, Nix

Professional Experience

QDX Technologies | Full-Stack Engineer   October 2023 – November 2024

Google Cloud • JavaScript • TypeScript • Node.js • React • Redux • Auth0 • Apollo • Relay • GraphQL • PostgreSQL • Wasm • Rust • Python • C++ • LangChain • OpenAI

Quantum Dynamics (QDX) is a leading biotech startup specializing in quantum computational chemistry. At QDX, I prototyped complex UX flows to support usability research and lay the groundwork for a foundational software stack.

- **Enhanced the usability of high-performance simulations** and ML-driven processes **(0 to 1)** by leading the design and prototyping of advanced UX flows using React, TypeScript, Rust, Python, and GraphQL.
- **Streamlined complex algorithmic tasks** by building **LLM-driven apps** that leveraged cutting-edge infrastructure, integrating APIs like **LangChain and OpenAI.**
- **Improved responsiveness and reduced overhead** for critical workflows by developing performance-enhancing modules using **WebAssembly (Wasm) in Rust and C++.**

Atomix Design | Tech Lead   June 2020 – September 2023

Scrum • Jira • AWS • Google Cloud • Kubernetes • JavaScript • TypeScript • Node.js • React • React Native • Redux • PHP • Laravel • Auth0 • Apollo • GraphQL • Firestore • MySQL

For Atomix, I built a highly secure and scalable member platform for a major Australian client, utilizing GraphQL, TypeScript, Node.js, Apollo, React, PHP/Laravel and Auth0, integrated through microservices on Google Cloud.

- **Boosted client onboarding rates** by **over 33% within six months,** driving proportional gains in revenue and visibility through a streamlined onboarding process and optimized client touchpoints.

- **Increased adoption and sustained engagement** for **over 80,000 members across Australia** by deploying a scalable solution built on robust architectural principles and best practices.

Turing (Palo Alto) | Engineering Manager   September 2019 – March 2020

Scrum • Jira • ELK • ElasticSearch • Google Cloud • Jenkins • JavaScript • TypeScript • Node.js • React • Redux • NestJS • MySQL

Premier remote talent marketplace catering to Silicon Valley startups and leading companies in the machine learning sector. At Turing, I held dual responsibilities, as a founding member of Vertical Engineering Leadership and Engineering Manager, overseeing critical engineering operations, candidate vetting, customer engagement, and best practices.

- **Contributed to steering the company toward profitability (0 to 1)** by co-founding the Vertical Engineering and Vetting teams.
- **Enhanced operational excellence** and improved talent quality by optimizing engineering and vetting processes.
- **Strengthened system reliability and scalability** with robust architecture by overseeing engineering for email marketing and AI-driven matching solutions.
- **Accelerated engagement growth** by enabling the delivery of **250,000 emails** through the technical implementation of candidate acquisition efforts.
- **Drove candidate base growth,** helping to double it in three months by contributing to targeted acquisition strategies.
- **Supported the company's $46 million Series B funding** by ensuring technical readiness and scalability.
- **Helped drive** the company's **Unicorn growth** by establishing scalable practices.

Freelance | Software Engineer   February 2008 – Present

- **Delivered high-performance solutions for 15+ years,** enabling successful project completion on-site and remotely by leveraging expertise across diverse technologies.
- **Drove consistent client satisfaction,** achieving a **100% success score on Upwork**, by delivering high-quality, impactful results.
- **Ranked in the top 1%** on Upwork, as measured by internal assessment standards, by demonstrating technical expertise and a proven track record.
- **Enabled client success** across multiple freelancing platforms and competitive programming websites, earning top rankings and verified skills by excelling in assessments and delivering standout projects.

Education

- **UIUC Gies College of Business** • currently pursuing MSM Online
- **HEIG-VD** Engineering School (Switzerland) • HES Software Engineering

Professional Certifications

- **MIT** - Data Science and Machine Learning • 2023
- **Google Cloud** - Professional Data Engineer / Cloud Architect • 2022 - 2023
- **AWS** - SysOps Administrator / Developer / Solutions Architect Associate • 2019 - 2020
- **The Linux Foundation** - Node.js Services Developer / Application Developer • 2019 - 2020
- **Oracle** - Certified Associate, Java SE 8 Programmer • 2018
- **ITIL** - HDI Customer Support Specialist • ITIL/ITSM Foundations

Research

- **February 2009 – June 2009, Columbia University - Java • C++ • JNI • SWT**
  Multimedia utility for tsunami research.

- **February 2008 – February 2009, EPFL - Java • C# • C++ • Direct3D • DirectShow • HLSL • XNA**
  Interactive solutions for virtual training and medical imaging.