MAURO COLELLA

Senior Full-Stack Developer

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Currently relocating to Canada

in https://www.linkedin.com/in/mauro-colella

Senior Full-Stack Developer with over 15 years of experience building high-performance solutions across cloud and data engineering and machine learning domains. Proven track record of delivering scalable software solutions and boosting business growth. Fluent in **English, French, and Italian.**

Technical Expertise

Systems and Design

Cloud Architecture • Agile • Scrum • Data Engineering • Data Science (MIT) • Machine Learning • MLOps • AWS • Google Cloud

Languages and Frameworks

JavaScript • TypeScript • Node.js • React • Next.js • GraphQL • Python • Java • Rust • C++ • Wasm • OpenAl • LangChain • Git

Professional Experience

QDX Technologies

October 2023 - Present

Full-Stack Developer

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

Quantum Dynamics (QDX) is a leading startup specializing in computational chemistry, with operations based in Singapore and Australia. Under the leadership of Giuseppe M.J. Barca, the research team holds several world records in high-performance computing.

- Designed, developed, and maintained advanced software products to enable the utilization of high-performance computing solutions, using React, TypeScript, Rust and GraphQL.
- **Built multiple apps** that leveraged the team's cutting-edge infrastructure, addressing complex algorithmic challenges and integrating APIs like **LangChain and OpenAI**.
- Developed and integrated modules using WebAssembly (Wasm) in Rust and C++ to enhance performance and functionality.

Atomix Design

June 2020 – September 2023

Tech Lead

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

Developed a highly scalable and secure member platform using Node.js, React, Next.js, TypeScript and GraphQL for a major Australian client. The project included payment integration, third-party APIs, cloud architecture and data engineering. Security was achieved to a high standard by leveraging third-party authentication and cloud-centric strategies, specifically Auth0, KMS, Secret Manager and Cloud Armor.

Achievements

- Boosted client onboarding rates by over 33% within six months, with a similar increase in revenue and visibility.
- Deployed the solution to over 80,000 members across Australia, which remains active and maintained.

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Turing.com (Palo Alto)

September 2019 - March 2020

Engineering Manager

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

Participated in the creation and implementation of internal products and guidelines during Series B funding, supporting customer and candidate acquisition. Drove efforts to implement complex interaction flows on central products of the company, involving a variety of data sources and actors.

Achievements

- Founding member of the Vertical Engineering and Vetting teams.
- Managed engineering for proprietary email marketing and matching products.
- Led efforts to acquire thousands of candidates, sending over 250,000 emails.
- Played a key role in doubling the candidate base within three months.
- Supported growth efforts during a Series B round, contributing to additional funding and company expansion.
- The company achieved Unicorn status after my departure.

Freelance

February 2008 - Present

Software Engineer

- 15+ years designing and delivering high-performance solutions across various technologies, both on-site and via freelancing platforms.
- Achieved a 100% success score for projects completed on Upwork.
- Ranked in the top 1% of software engineers on Upwork based on internal vetting.
- Actively vetted and recognized on other freelancing platforms and competitive programming websites

bi, Blue-Infinity (Geneva)

June 2005 - February 2008

IT Consultant

Maintained hardware and software for fast-paced government organizations and high-revenue companies (Fortune 500/50) operating within the ITIL framework. Client companies included **DHL**, **The UNICC (United Nations)**, **Philip Morris International**, **EFG Money Bank** and **Dialogue Logique SA**.

Earlier

- June 2001 June 2005, Cablecom Sarl | DBA
- November 2000 May 2001, Colombus S.A (IT Services Company) | Junior trainer

Research

February 2009 - June 2009, Columbia University - Java • C++ • JNI • SWT

Developed a multimedia utility for tsunami research and simulation.

February 2008 - February 2009, EPFL

Java • C# • C++ (unmanaged) • Direct3D • DirectShow • HLSL • XNA

Created interactive solutions for virtual training and medical imaging.

Education

HEIG-VD Engineering School (Switzerland) • HES Software Engineering

Training 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
- 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

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