MAURO COLELLA

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.is, 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.

11 Feb 2025 Page 1/2 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 Al-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.

11 Feb 2025 Page 2/2