MAURO COLELLA

Senior Software Engineer

mauro.ludovico.colella@gmail.com • https://mauro-colella.com

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

Nationality

Italian • Currently in the Philippines. Willing to relocate.

Languages

French • Mother tongue.

English • Fluent + Certified (Cambridge CAE).

Italian • Fluent.

Professional Training & Education

Training Certifications

Currently studying for Google Cloud's Machine Learning Engineer Professional specialty.

Google Cloud

Google Cloud Certified Professional Cloud Architect • **2023**

Google Cloud Certified Professional Data Engineer • **2022**

AWS

AWS Certified SysOps Administrator Associate • **2020**

AWS Certified Developer Associate • **2019**

AWS Certified Solutions Architect Associate • **2019**

Oracle

Oracle Certified Associate, Java SE 8 Programmer • **2018**

The Linux Foundation

OpenJS Node.js Services Developer (JSNSD) • **2020**

OpenJS Node.js Application Developer (JSNAD) • **2019**

ITIL

HDI Customer Support Specialist • ITIL/ITSM Foundations

Education

September 2003 - 2007 • HEIG-VD Engineering School (Switzerland) • HES Software Engineering
1994 - 1997 • Gymnase de Chamblandes, Pully (Switzerland)

Technical Expertise

Highlights

JavaScript • TypeScript • Node.js • React • GraphQL • Java • Agile • Scrum • AWS • GCP

Skills

.Net | Agile | Access | Action Script 2 & 3 | Active Directory | After Effects | Apache | Apollo | App Center | Authorize | Auth0 | AutoML | AWS | Azure | Backbone | Bitbucket | Bitcoin | Blockchain | Bootstrap | BSD | C# | C++ | CentOS | CircleCI | Confluence | CSS | CSS3 | Cypress | D3 | DataOps | Dataflow | Dataproc | Data Fusion | Debian | DevOps | Direct3D | DirectX | Docker | Drupal | ES6 | ESNext | Elasticsearch | ELK | Express | FBX | FreeBSD | Google Cloud / GCP | Git | GitHub | Gitlab | Grafana | GraphQL | Heroku | HHVM | HP-UX | HTML | HTML5 | HTTP | HTTP2 | Hubspot | Jasmine | Java | JavaScript | Jest | JIRA | JNI | jQuery | JSON | JSP | JSX | Kibana | LAMP | Laravel | LEMP | Linux | Logstash | MariaDB | Memcached | MERN | Mocha | MongoDB | MS SQL Server | MySQL | NestJS | NGINX | NoSQL | Node.js | Office | OpenCV | OpenGL | PayPal | Photoshop | PHP | PHPUnit | PIXI.js | Postgres | React | React Native | Red Hat | Redux | REST | Ruby | Sentry | Scrum | Solaris | SOLR | SQL | SSIS | SSL | Stripe | SVG | Sybase | Symfony | Terraform | THREE.js | TypeScript | Ubuntu | UML | Underscore | Varnish | VB.NET | Vertex AI | WebGL | Webpack | Windows | WordPress | Xero | XML | XSLT | Yii | Zend

Professional Experience

May 2020 – Present – Atomix.com.au

Tech Lead

Skills

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

Tasks

- Developed a dedicated TypeScript library for payment integration.
- Developed frameworks and integrations for multiple projects.
- Implemented services of a GraphQL API on a data warehouse based on Google Cloud.
- Developed project infrastructure as platform-agnostic code using Terraform.
- Maintained cloud infrastructure as needed to support client-managed encryption (KMS), load balancing, CDN integration and other project functions (CI, email, security, redundancy).
- Implemented complex integrations with third-party services (authentication and detailed monitoring/tracing using Auth0/Sentry).
- Performed the analysis and planning of software releases.
- Documented infrastructure and processes for maintenance and support.

Achievements

Although I worked on multiple projects for Atomix, the core of my activity was with one large-scale solution for a client active across all Australian territories. That solution required the development of a brand new onboarding platform, as well as facilities reserved to the organization's members, and multiple integrations and data transformation workflows.

Release and development were conducted progressively and iteratively, and within six months of the first release, the client was able to achieve an **increase of over 25% to their onboarding rates,** leading to a similar increase to both their revenue and their visibility.

September 2019 – March 2020, Turing.com (Palo Alto)

Software Engineering Manager

Skills

JavaScript • TypeScript • Node.js • React • Redux • NestJS • MySQL • Jira • Scrum • ElasticSearch • GCP • Jenkins

Tasks

- Sprint planning and coordination within SCRUM (Jira).
- Coordinated teams of up to 7 people to deliver application changes and bug fixes.
- Bi-weekly standups + additional async standups on a daily basis.
- Software development.
- Infrastructure planning and improvements (+QA & CICD).
- Technical interviews of contributors and candidates.
- Mentored engineers internally and within partner companies.

- Helped to establish a framework for best practices within the company.
- Vertical Engineering Leadership
- Client discovery and outreach.

Achievements

- I was a founding member on the Vertical Engineering and Vetting teams of Turing.
- During my time with Turing, I also managed engineering on the proprietary email marketing and matching platforms of the company.
- The teams and products I worked with enabled the acquisition of thousands of candidates via mail marketing (**250,000+ emails**).
- The company more than **doubled its candidates base within a span of three months** while I worked on the marketing solution**.**
- I also personally vetted and matched software engineers in a diverse range of positions, both as internal contributors and within client companies.
- Altogether, this work helped to grow Turing from an early-days startup into a profitable and established company.
- Shortly after my exit, Turing was able to secure **two new rounds of funding for a total value of 46$ million USD**, and has gone on to achieve Unicorn status since.

February 2008 – September 2019, Self-Employed

Software Engineer

For over ten years as a full-time freelance developer I have designed, shipped and maintained high performance solutions, using multiple stacks and technologies including:

- Java and JSP.
- PHP, Laravel, HHVM, Yii and Symfony.
- Node.js, with various frameworks including Express.
- TypeScript and JavaScript.
- React, Redux, Apollo, GraphQL, Webpack.
- Apache and Nginx.
- Varnish, Memcached.
- SQL and NoSQL databases (MySQL, Postgres, Mariadb, DynamoDB, Firestore, MongoDB).
- Drupal, WordPress and the WordPress API.
- Proprietary or custom utilities.

I have also conducted the following tasks, related to DevOps, analysis and solutions architecture:

- Development and maintenance of cloud solutions, using AWS and Google Cloud.
- Setup, support and optimization of Linux environments (Ubuntu, Debian, CentOS).

- Development and maintenance of containerized solutions, using Docker (ECS/App Engine/Cloud Run) as well as low-level systems including FreeBSD (jails) and LXD.
- Integration of third party services for accounting, payment, social networking and analytics (Xero, Stripe, Authorize, FatZebra, Hubspot, Analytics, GTM, FullStory).
- Testing and testing automation (PHPUnit, Cypress, Mocha, Chai, Jest, Jasmine),
- Development of workflows using Azure, App Center, CircleCI, Jenkins and Gitlab CI for Continuous Integration and Delivery.

Leading to a **[success score of 100% for projects completed on Upwork](#)**.

I am also expert-vetted by leaders from Upwork as **part of the top 1% professionals on the marketplace**.

June 2005 – February 2008 bi, Blue-Infinity (Geneva)

IT Consultant

December 2007 – January 2008, DHL headquarters

Software Developer

- Migration of a Solaris and Sybase solution to a HP-UX environment.

August 2007 – November 2007, UNICC (United Nations)

Database Developer

MS Windows XP • MS Windows 2003 • MS SQL Server 2000 - 2005 • Sharepoint • SSIS • VB.Net

- Maintenance of SQL Servers integrated into Sharepoint solutions.
- SSIS/VB.Net development to automate data transforms between OLEDB providers.

August 2006 – August 2007, Philip Morris International

Development Support (Product Tracking and Security)

MS Windows XP • Windows Mobile • Windows CE • SQL Server 2000 • MS SQL CE • VB.Net • C#

- Hardware support (desktop & PDAs).
- Development and deployment of software tools and fixes. On-site maintenance (worldwide offices).

July 2006 – August 2006, IT Consultant for Dialogue Logique SA

Software Packager / 2nd Level Support – MS Windows 2000 • Active Directory

Quality acceptance of applications deployed to Nestlé offices worldwide.

June 2006 – July 2006, EFG Money Bank

Software Developer – Java

June 2005 – December 2005, Philip Morris International

2nd Level Support – MS Windows XP • Active Directory • MS Office 2003 • Outlook / Exchange 2003

Hardware support (desktops, laptops, PDAs, etc.) / IT Projects, participated in deployment and support of:

- SAP clients, reporting tools, Citrix Metaframe clients.
- Microsoft products.
- Publishing and design suites (Adobe CS, InDesign, Acrobat, Illustrator).
- PMI-developed applications.
- Setup and maintenance of software and hardware infrastructure for PMI-organized conferences and events.

Earlier

June 2001 - June 2005, Cablecom Sarl

User Support / DBA

November 2001 - May 2001, Colombus S.A (IT Services Company)

Junior Trainer and Software Developer

Research

February 2009 – June 2009, Columbia University

Java • C++ • JNI • SWT

Development of a multimedia utility for tsunami research and simulation, enabling real-time rendering of simplified models using coastal profiles.

The application was used in public conferences, leading to an invitation for me to speak at an event from the American Geophysical Union.

February 2008 – February 2009, EPFL

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

Development of interactive solutions for virtual training and medical imaging.