

# Juan Rosero

## Senior Full Stack Developer

London, UK    [juan@rosero.dev](mailto:juan@rosero.dev)    +44 7591 641684    [github.com/skullerj](https://github.com/skullerj)    [juan.rosero.dev](https://juan.rosero.dev)

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## Professional Summary

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Born in the Andes mountains of Ecuador and now based in Europe, I'm a Full Stack Developer with 7+ years of experience building scalable web applications and leading development teams. I specialize in React, TypeScript, and GraphQL with a strong design mindset, focusing on creating user-centered solutions that bring real value to businesses. Currently serving as Squad Lead at Engine AI, I drive technical decisions while mentoring team members to deliver complex features that bridge data and insights.

## Professional Experience

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### Senior Full Stack Developer & Squad Lead

September 2020 - Present

Engine AI • London

Demonstrated rapid career progression from Junior Developer to Squad Lead over 4+ years at a data insights startup specializing in visualization platforms. Led the development of core platform architecture using React, TypeScript, PostgreSQL, and GraphQL, enabling clients to transform data into actionable insights. Built essential product features that drove significant business value through client customization capabilities and rapid prototyping for new AI solutions. Managed a development squad while maintaining hands-on technical contributions across full-stack feature delivery.

- **Architected foundational systems:** Designed and implemented the initial PostgreSQL database schema for widget and dashboard data storage, plus GraphQL configurations for React-based data visualization components used across the platform.
- **Enabled client presentation flexibility:** Developed comprehensive theming system allowing our platform to adapt to client brand requirements, essential for enterprise sales and seamless client onboarding processes.
- **Drove rapid prototyping initiatives:** Provided quick UI prototyping capabilities for new AI solutions, enabling the team to "show not tell" when exploring product directions and validating concepts with stakeholders
- **Delivered high-impact tooling:** Created and maintain the Product Testing platform for AI agent debugging, plus multiple custom platform versions for high-stakes demos that showcased company capabilities to potential enterprise clients

**Technologies:** React, TypeScript, PostgreSQL, GraphQL, Docker, Azure

### Full Stack Developer

July 2020 - September 2020

101 Grados • Quito

Worked as a Full Stack Developer for a leading marketing company in Ecuador, providing technical solutions for major brands including General Motors and Multicines. Developed custom platforms using a diverse tech stack including

React, MySQL, PostgreSQL, NodeJS with NestJS, and Elasticsearch. Focused on creating scalable solutions that could handle thousands of users while meeting specific client performance requirements. Left the position to pursue the opportunity to move to Portugal with Engine AI.

- **Built email marketing platform for Multicines:** Created a comprehensive platform allowing the team to build, target, and schedule email campaigns to thousands of users, with custom data pulling solutions to handle performance constraints from client endpoints.
- **Modernized General Motors lead management system:** Led the migration from legacy PHP backend to NodeJS while revamping the React client, significantly improving system performance and maintainability for their sales process.
- **Enhanced lead tracking capabilities:** Integrated Elasticsearch to improve data findability and implemented new features to closely monitor lead progression, providing better insights for the sales team.

**Technologies:** React, Node.js, NestJS, PostgreSQL, Elasticsearch

## Frontend Developer

September 2018 - December 2019

Jobsity • Quito

Started as part of Jobsity's competitive JSchool program, which I accessed through a hackathon and completed with merits, leading to a full-time Front End Developer position. Worked for a software development near-shoring startup that connects Latin American talent with US clients. Focused on React development and component library architecture for internal and external platforms. Left the position in preparation for the planned move to Portugal with Engine AI in early 2020.

- **Developed foundational component library:** Built the React component library used across internal and eventually external platforms, establishing design system standards and reusable UI components using Storybook for documentation and testing.
- **Built customer-employee management platform:** Created the React frontend for the internal platform managing customer-employee relationships, working on a greenfield project that allowed for modern development practices and architecture decisions.
- **Contributed to backend development:** Developed backend functionality using NestJS to support the customer-employee management platform, gaining full-stack experience in a Node.js environment.

**Technologies:** React, Storybook, NestJS, TypeScript

## Full Stack Developer

June 2016 - March 2018

Ecuador House Rentals • Quito

Worked as a Full Stack Developer for a property listing platform while still in university, after being approached based on academic performance to develop the complete website from scratch. Collaborated with a colleague to design and build the entire platform over the course of a year, gaining foundational experience in full-stack development and business requirements. Successfully launched the platform in 2017 and continued supporting it through 2020 when the business was discontinued by the owners.

- **Designed scalable database architecture:** created the MongoDB database model from scratch, ensuring adaptability to changing requirements in the unexplored territory of Ecuador's online property market.
- **Built comprehensive design system:** Developed the platform's design system based on emerging Material UI guidelines, implementing UI components using Polymer to achieve Material UI compliance out of the box.
- **Integrated payment and compliance systems:** Implemented PayPal integration and custom semi-automated bank transfer methods, plus automated receipt generation to meet Ecuadorian tax system requirements.
- **Solved SEO challenges for SPA:** Developed a custom mini-server solution to make listings discoverable by search engines despite the single-page application architecture, ensuring organic traffic growth for the platform.

**Technologies:** MongoDB, Polymer, Node.js, Material UI, Heroku

## Technical Skills

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### Frontend Development

React, TypeScript, HTML5, CSS3, GraphQL, Astro

### Backend Development

Node.js, NestJS, PostgreSQL, MongoDB, MySQL, Elasticsearch

## Tools and Technologies

Git, Docker, Azure, AWS, Firebase, Jest, Vite, Storybook

## Education

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### Electronics and Telecommunications Engineering

Universidad de las Américas • Quito

July 2012 - February 2018

- Full merit scholarship awarded by the State
- Thesis: Bottle image classification system using Convolutional Neural Networks
- Equivalent to Masters in Computer Science (European standard)

# Key Strengths

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## Technical leadership

Proven ability to lead development teams while maintaining hands-on technical contribution and code quality standards.

## Cross-Cultural Communication

Experience working across international teams and clients, with strong communication skills for technical and non-technical stakeholders.

## Adaptability

Successfully navigated multiple technology stacks and business domains, from marketing platforms to financial data insights.

## Languages

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Spanish	Native
English	Advanced
Portuguese	Mid-Advanced

## Design-Focused Development

Strong emphasis on user experience and visual design, ensuring technical solutions align with user needs and business objectives.

## Problem-Solving

Solution-oriented approach to challenges, focusing on practical outcomes rather than obstacles.

## Continuous Learning

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**Design Thinking, the Ultimate Guide**  
Interaction Design Foundation • June 2023