

Marco Evair Macollunco

Software Engineer · Software Architect

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"Be the change that you want to see in the world."

Summary

Results-driven Software Engineer with extensive experience in web-focused software development and agile methodologies. Proficient in NodeJS, Ruby, Python, and JavaScript, with a strong ability in technical implementation and problem-solving using a variety of libraries and frameworks. Known for a client-focused approach, I excel in UI/UX collaboration and troubleshooting/debugging to deliver quality solutions. Demonstrated leadership in guiding teams through complex projects, actively listening to clients, and architecting creative solutions in fast-paced environments. Passionate about quality assurance, process improvement, and team collaboration, I am eager to apply my skills in a dynamic team to develop innovative, high-quality software.

Work Experience

SIMPLIRROUTE, Software Engineer

Jun 2021 – Current

- Successfully led a migration from AngularJS to React.js for the front end, creating pipelines with GitHub Actions within a three-month timeframe.
- Spearheaded the transition of four modules from Django to Flask, aligning with a shift from monolithic to microservices architecture. This transition reduced server complexity and latency.
- Contributed to infrastructure architecture design and implementation using Terraform and AWS, consistently improving it to support 0.7 million users.
- Developed comprehensive documentation and enhanced the onboarding process for new engineers, streamlining team integration and knowledge sharing.
- Coordinated with key clients to implement specific enhancements, actively contributing to the development of software user manuals and technical reports
- Played a pivotal role as a Software Architect in designing new database structures and infrastructure for a monolithic system, utilizing SNS and SQS for communication between the monolith and new Flask modules

Tech stack: Django, NodeJS, React, AngularJS, PostgreSQL, Datadog, React, AWS, Typescript, Terraform, Redis.

Giraffe Media Group, Software Engineer (freelance)

Nov 2022 – Mar 2023

- I migrate the current infrastructure to IaaS using CDK to mitigate human risk, create stable environments, and improve the security of the infrastructure. I handle Lambdas, SQS, SNS, Event Bridge, Document DB, RDS, EC2, Cloud Watch, Route53, Bucket S3, Amazon VPC, and ELB during the migration.

Tech stack: NodeJS, Flask, Event-Driven Architecture, React, CDK, AWS, Lambda Functions.

Revboss, Software Engineer (freelance)

May 2022 – Nov 2022

- Partnered with Cronify to accelerate appointment reservation processes and utilized rack-mini-profile and bullet gems for optimizing database queries, enhancing performance and efficiency.
- Demonstrated proficiency in developing and maintaining web applications using Ruby on Rails, React, and GraphQL, coupled with strong knowledge in programming languages including Ruby, Python, and JavaScript.
- Known for excellent testing skills, detailed code reviews, and a commitment to high-quality output; effectively troubleshoots and resolves technical issues within cross-functional teams in a collaborative environment.
- Played a leading role in making architectural decisions, contributing to design discussions to align software architecture with business scalability. Expert in building, maintaining, and optimizing modular and reusable components

Tech stack: Ruby on Rails, React, GraphQL, AWS.

Avant, Software Engineer (freelance)

Nov 2021– May 2022

- I connected to Twilio and added new flows to Kafka, processing, storing, and publishing new streams of events.
- I implemented windowed stream processing using Python and Kafka Streams. This allows performing aggregations and computations over fixed time intervals or event counts, enabling tasks such as sessionization or time-based analytics.
- I designed and implemented a scalable and highly available Kafka consumer group in Python, capable of handling high message throughput. This may involve partition rebalancing, dynamic scaling, and monitoring consumer lag.

Tech stack: Flask, Java, React, Microservices, Kafka, Twilio, RabbitMQ.

Hercules Pharmaceutical, Software Engineer (freelance)

Apr 2020 – Oct 2021

- I build e-commerce that allows customer-seller conversation and sends records to the government.

Tech stack: Nodejs, React, Nextjs, Docker, AWS, PostgreSQL, DynamoDB.

BUK, Software Developer

July 2021 - Oct 2021

- I reduced the number of bugs by 35% of the salary calculator.
- I refactored 16% of the salary code and reduced this complexity.

Tech stack: AWS, Ruby on Rails, NodeJS, PostgreSQL, React, GraphQL.

CODEABLE, Full-Stack Developer

Jul 2020 – Dec 2020

- I reduced the time processing data for administrative processes by 25%.
- I created applications for the company and helped the transmission and engineering department to work well and quickly.

Tech stack: NodeJS, Nest.js, Rails, Oracle, MongoDB, Angular.

ICETEL, Full-Stack Developer

Jan 2020 – Jun 2020

- I reduced the time of processing data for administrative processes by 25%.
- I created applications for the company and helped the transmission and engineering department to work well and quickly.

Tech stack: NodeJS, Nest.js, Rails, Oracle, MongoDB, Angular.

RTC Retail, Full-Stack Developer

Feb 2017 – Dec 2019

- I automated several manual calculation processes, reducing cost reporting time from 22 days to 1 day.
- I reduced the budget error ranges from 40% to 8%.

Tech stack: NodeJS, Ruby on Rails, Python, Javascript, MySQL.

Skills

Programming Languages: Ruby, Javascript, Python, Nodejs, Java, C++, Bash.

Frameworks and Tools: Ruby on Rails, Nest, React, Nextjs, Django, Flask, AWS, Docker, Gitlab, Git.

Soft Skills: Communication, empathy, open-mindedness, teamwork, and adaptability.

Languages: English, Advanced; Spanish, Native.

Education

Massachusetts Institute of Technology (MIT)– **Remote, USA**

Applied Data Science Program, Computer Engineering, current student

Codeable Bootcamp - **Lima, Perú**

Intensive software engineer education program, April 2021

National University of Engineering - **Lima, Peru**

Fourth-year student of Industrial Engineering, July 2015

Hobbies

- I play soccer and basketball every weekend.
- I run every day.