Marco Iurman

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marcoiurman.com - *might be outdated*

PROFESSIONAL SUMMARY

Experienced software engineer with a proven track record of developing innovative solutions and designing successful projects. Skilled in leveraging a diverse range of technologies to drive efficient and scalable development while also focusing on quality. Ability to thrive in dynamic environments with a strong focus on problem-solving and delivering impactful results. Lately focusing on GenAI solutions and scaling Fintech.

WORK EXPERIENCE

Empower   Feb 2025 - Present
Senior Fullstack Software Engineer   *Remote*

- Scaled and maintained a large-scale monorepo supporting 150,000+ daily active users, using a hybrid GitHub Actions + AWS CodeDeploy CI/CD workflow.
- Designed and shipped the Settlement Offers system — an event-driven workflow using Lambda + SQS to propose discount-based repayment options by delinquency bucket, leading to a 40% reduction in default rates..
- Integrated third-party cashback providers Kard and Dosh through Go/Python-based microservices.
- Unified architectures between Empower (C#) and Petal Card (Python) using the Facade Pattern, enabling seamless cross-system communication.
- Built customer-facing GenAI analytics features: designed LangChain + OpenAI pipelines to analyze spending behavior and surface insights via React + Redux components on web and mobile platforms.
- Delivered scalable UI components across React (Web) and React Native (iOS/Android), ensuring feature parity across platforms.

Telescope Partners   Nov 2023 - Feb 2025
Lead Senior Software Engineer

- Led development of Lens, a dynamic Python API (FastAPI on Beanstalk) tailored to each investor via StatSig-based prompt configuration, enabling personalized LLM responses.
- Built event-driven architecture using SNS/SQS and FastAPI, based on a pub/sub pattern, to support market insights and ranking pipelines for investment analysis.
- Designed GenAI modules with LangChain to handle multi-step prompt workflows, structured JSON outputs from LLM responses, and robust text chunking for downstream processing.
- Developed high-volume async consumers:
  - Parsed emails & newsletters since 2016, extracting structured content using LangChain, persisted results to domain models for downstream ranking while also identifiying high-performing companies for investment via LLM-powered entity extraction and scoring contributing to profitable decisions by the fund.
  - Refactored legacy data pipelines into Airflow DAGs and ECS-based services for scalable ingestion and enrichment across multiple data sources.
  - Realtime service processed more than 2000 emails per day.

Beauty For All Industries
December 2021 - November 2023

Senior Software Engineer   *Remote*

- Led development of an Automation Service using Node.js + DynamoDB, eliminating all manual environment and test user setup across the QA and dev teams..
- Designed and built Batch Manager, a Python-based data migration service for user data between platforms, with safe rollbacks and reporting mechanisms.
- Maintained and improved a core Subscription Service handling recurring billing and user segmentation across multiple cycles and tiers.
- Integrated ML pipelines on Airflow + Databricks for:
  - Churn prediction modeling.
  - Production line optimization, improving packaging effiency and reducing operational costs.
- Created a unified microservice version tracking dashboard with Jira, Slack and Datadog integration - adopted org-wide to improve release and debugging visibility across Ruby, Java and Kotlin services.

Secureauth Software
January 2019 - December 2021

Senior Software Engineer, Platform Team (Fullstack)   *Buenos Aires - Irvine, CA*

- Designed and implemented Privy, a high-performance Go microservice for real-time privilege management and behavioral authentication — leveraging location aggregation and behavioral data for passwordless flows.
- Built Portal, a React + Python (Flask) OAuth2.0 hub enabling centralized SSO and improved user access security across enterprise apps.
- Created Translation Service, a production-grade Flask API to manage real-time language switching across all frontend services with API-first design, built-in observability, and fault tolerance.
- Upgraded and extended a custom KrakenD-based API Gateway, enabling centralized auth policies, traffic shaping, and better monitoring support.
- Dockerized and deployed 6+ Go microservices using AWS ECS + Kubernetes, reducing friction in deployment and scaling workflows.
- Delivered reusable React.js components and showcased monthly internal tech demos, including browser fingerprinting and adaptive auth strategies.
- Championed testing best practices across Python services, increasing test coverage and reducing regressions in critical flows.

Practia Inc
January 2016 - January 2019

Software Engineering Intern (Backend) to QA Tech Lead   *Buenos Aires*

- Developed a Python + Flask tool for log analysis at Telefónica, drastically improving real-time alerting and reducing on-call incident response.
- Refactored e-commerce backend with SQLAlchemy, improved query performance and maintainability; enhanced Jenkins pipelines for faster CI cycles.
- Led a healthcare data analysis project with Python + Pandas, integrated into client-facing systems for automated reporting.
- Promoted to QA Tech Lead: transitioned a manual QA team into an automation-first organization.
- Introduced and standardized unit/integration testing via unittest, pytest, and Selenium Grid across all clients.
- Designed the company's first reusable automation framework, adopted as the QA baseline across multiple accounts.

EDUCATION

Universidad de Buenos Aires

Electrical Engineering   *Buenos Aires*

- Courses: C, Linux Networking, Compilers, Algorithms I - III Data Structures

SKILLS

Languages: Python, Go, Javascript

Technologies: GraphQL, Bash, Git, Jenkins

Infra: AWS, GCP

Backend: Flask, FastAPI, Node, Gin, Django

Frontend: React.js, Next.js, Redux

Databases: PostgreSQL, MongoDB, DynamoDB, Redis, Clickhouse

Queues / Events : AWS SNS/SQS, Apache Kafka

GenAI: Prompt Engineering, LangChain