

Matheus Tura

Backend Software Developer

Bachelor's from one of the top 10 best ranked universities in Latin America. Professional developer since 2016 and Specialized in AWS, with proven ability in sensitive migrations and cloud cost reduction. Opinionated towards clean code, test-driven development, infrastructure as code and best practice champion.

PROFESSIONAL EXPERIENCE

PayPal (Venmo) — Back End Developer

AUG 2023 - Current

USA leading mobile payment systems (Venmo)

- Optimized a high-throughput Tier 1 rest-grpc API, reducing P95 time in 35%, Max time in 90%, eliminating jitter and persistent timeout errors.
- Championed a year-long initiative to retire decade-old shared libraries and gradle plugins that imposed transitive dependency pinning across Java microservices, restoring independent service versioning, security and upgradeability.
- Spearheaded stabilization and automation of previously dormant integration test suites across all java modules, improving release confidence for Tier 1 service.
- Drove critical modernization by enabling upgrades to Java 11-> 17, Spring, Cassandra, unblocking only and cost savings.
- Integrated an auto-remediation DynamoDB system with cross-account IAM role assumption, adding parallel-scan batch jobs and concurrent kafka producing, enabling high-throughput, audit-level remediation in case of downtimes.
- Architected kafka-based payment event processing microservice from scratch with hexagonal architecture, DI, strategy pattern, enforcing python type safety with schema contracts (Avro-To-Padantic) converters, enabling granular level contract violation detection, local debug-ability and extensible event lifecycle incrementation.
- Enforced linter paypal standards across java services cutting sonar smells by 50%.

Technologies: Java(Spring), Python, Docker/K8s, AWS, Kafka, Github Actions, Datadog

Axur Cyber Security — Java Back End Developer

MAR 2020 - OCT 2021

Latin America leading fraud/copyright auto detection/removal for surface/deep/darkweb

- Worked on a large scale java event-sourcing microservices environment
- Developed a multithreaded java microservice with IPC (Unix Domain Sockets) increasing packets throughput capability in 100x.
- Promoted and created a tooling for microservice endpoint load-test using Python Locust, resulting in data-driven choices for upper limit REST endpoint parameters.
- Contributed on periodic engineering support shifts monitoring observability metrics and ensuring systems health and SLA deadlines.
- Reduced S3 costs migrating Terabytes of tiny files from Standard to Glacier.
- Migrated sensitive internal services (nexus, pypi, sonarqube, jenkins), little downtime.
- Built/Maintained/Optimized jenkins CI/CD tools, pipelines and jobs automation.
- Mentored newcomers as a Buddy, offering code reviews and best practices.

Technologies: Java(Spring), Python, Docker, RabbitMQ, AWS, Jenkins, Datadog, SQL, Linux, Event-Sourcing

Elyios Smart Agriculture — Software Developer

MAR 2019 - MAR 2020

Farm journaling mobile app with IoT sensing integration for greenhouse farmers

- Introduced fuzzy search algorithm, boosting accuracy and user experience.
- Created Systemd daemon to update java apps on remote rasp pis, ending manual ssh.
- Designed and created a technician chat with photo exchange capability for incidents.
- Implemented authenticated APIs for weather data using Python Flask.

Technologies: C#, Java, Python, Xamarin, SQLite, MySQL, Flask, Pandas, Linux

zatura.me

github.com/zatura

gitlab.com/matheus-tura

hackerrank.com/matheus_tura

linkedin.com/in/matheus-tura

matheus.tura@protonmail.com

EDUCATION

B.S. Computer Engineering

UFRGS - Brazil

AWS CERTIFICATIONS

[Certified Developer Associate](#)

[Certified Cloud Practitioner](#)

SKILLS

AWS, Java, Python, Docker
Test-driven Development, Event Sourcing Architecture, CI/CD, Linux, Cloudformation, Microservices, Bash

AWARDS

IEEE World Haptics Conference, Chicago, 2015

Student Innovation Challenge 3rd Place

Vex Robotics Competition Round Up, Brazil, 2010

Excellence Award

1st Place Team Award

LANGUAGES

English-Bilingual Proficiency

Portuguese-Bilingual Proficiency

CITIZENSHIPS

Brazilian

Italian

INTERESTS

Backend, Microservices, DevOps, Linux, Data Science, Cryptocurrencies.

Asimov Trading — Python Developer

AUG 2018 - FEB 2019

Proprietary trading firm for low-latency statistical arbitrage and market neutral strategies

- Coded a market making backtest for Brazilian cryptocurrency exchange, Quantitative analysis model backtested with pandas and numpy.
- Developed an observability dashboard for cloud infrastructure and running strategies (AWS, Gcloud), resulting in fast response time for downtime incidents.
- Researched latency reduction, resulting in less network errors at heavy load periods.

Technologies: Python, Pandas, Dash, Linux, Bash, AWS, Websockets, REST

Nelogica — Delphi Developer

DEC 2016 - AUG 2018

Latin America leading trading platform, homebroker and order management system.

- Championed a novel news platform, generating revenue at a million-user scale.
- Implemented technical indicators for risk analysis at close contact with traders, negotiating requirements and design.
- Introduced a GPU compliant graphics delphi library instead of CPU-only.