

# 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 o11y 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

#### Elysios 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 rspb 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](https://zatura.me)

[github.com/zatura](https://github.com/zatura)

[gitlab.com/matheus-tura](https://gitlab.com/matheus-tura)

[hackerrank.com/matheus\\_tura](https://hackerrank.com/matheus_tura)

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### 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.