

Edison Aguiar

São Paulo, Brazil | eaneto@posteo.com | eaneto.dev | github.com/eaneto

Introduction

I'm a software engineer with over 5 years of experience specializing in distributed systems, currently working with one of Brazil's largest payment service providers. My primary interests lie in distributed systems and databases, areas I've focused on extensively in my studies over the past few years. Additionally, I've been learning Rust for past two years and using it as a primary language in personal projects.

Experience

Senior Software Engineer, Pagbank — São Paulo, BR May 2022 — Present

- Architected and developed the new balance management microservices, developing a more performant and scalable system. Leveraged technologies like Kafka, Kotlin, Java, Oracle and Kubernetes to design a system prepared for sharding. Achieved an infrastructure cost reduction of thousands of dollars while maintaining an excellent performance, with REST APIs handling up to 250,000 requests per minute, 99% of which received a response in under 50ms. Processed approximately 98% of events in under 5ms.
- Helped different engineering teams with their integration with the new microservices.
- Worked closely with product managers and different areas of the company to plan the roadmap for future features and improvements in our domain.
- Was on the on-call rotation helping solve incidents in production, writing automated alerts and dashboards with Grafana/New Relic and using New Relic APM and Jaeger to analyze performance bottlenecks.
- Participated in the hiring process by conducting technical interviews for engineering roles across various levels.
- Created a tech guild in the team to help onboard new team members, consolidate the knowledge of our tools and services and share new ideas.

Software Engineer, Pagbank — São Paulo, BR July 2021 — May 2022

- Migrated different parts of our internal monolith to new microservices, reducing the dependency of various applications in the monolith.
- Responsible for designing, developing, and rolling out in production the new microservices, written in Kotlin, responsible for the accounting of the company. These services were written in Kotlin and deployed in our own private cloud, in our Kubernetes cluster.

Junior Software Engineer, Pagbank — São Paulo, BR Nov 2019 — July 2021

- Developed new services in response to a central bank regulation in Brazil, focused on receivables. I primarily worked with Java, Kafka, and Cassandra.
- Responsible for the maintenance and evolution of some microservices built to decouple internal monolith domains by abstracting legacy data. These services were built on AWS using Lambda (Go), DynamoDB, and SQS.

Software Engineer Intern, Pagbank — São Paulo, BR Feb 2019 — Nov 2019

- Developed an internal tool for the accounting department using Java and MySQL.
- Learned about automated tests, writing unit tests, and integration/component tests.

Research

Research Student — Mackenzie Radio Astronomy and Astrophysics Center (CRAAM) March 2018 — June 2019

- Developed different tools in python for solar flare data analysis.
- Automated the daily operation of the 7GHz solar radio polarimeter. Paper published: "Tracking Automation Of The 7 GHZ Solar Radio Polarimeter Using a Paramount MEII Robotic Equatorial Mount" at the Brazilian Society of Space Geophysics and Aeronomy Symposium (2018).

Education

Mackenzie Presbyterian University, BS in Computer Science

Feb 2018 — June 2022

My final project was research on serializable transactions. More specifically the PostgreSQL implementation and how it performed compared to explicit locking.

Technologies

Languages: Java, Kotlin, Python, Rust, Go

Data systems: Oracle, Postgres, DynamoDB, Cassandra, Kafka, RabbitMQ

Certifications

Red Hat Certified Engineer: <https://rhtapps.redhat.com/verify?certId=250-072-741>