London
United Kingdom

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Employment

Senior Software Engineer **Holistic AI** **April 2023 – Present**

- Currently working on a platform for Risk Management on AI projects. The platform is being built from the ground up using Java and Micronaut, hosted on GCP using the Google Kubernetes Engine;
- I work alongside the Head of Engineering to define the long term architecture of our systems and establish our engineering best practices.

Key Technologies: Java, Python, and a range of GCP products including GKE, Datastore, Cloud Storage.

Enterprise Engineer **Meta** **January 2022 – March 2023**

- Part of the team that builds the internal supply chain software for Meta;
- Led the implementation of Meta's internal approval workflow used to request accessories and devices in the internal store. We built a customizable solution that allowed the business users to configure approval rules on a UI, **greatly reducing** engineering efforts and maintenance, and also saving the company a projected **$1 million** in their first year;
- Helped onboarding several new engineers in the team, getting them up to speed and serving as point of contact for learning our systems;

Key Technologies: Hack, Python, React, Javascript.

Software Engineer **NetEnt** **January 2020 – December 2021**

- Built a number of microservices for slot games, deployed on our on-prem data centers in multiple sites and on **GCP**, and scaled them to process **hundreds of thousands** of game rounds **every minute**;
- Migrated our legacy monolith from an on-prem setup to **GCP**, and then to a microservice architecture;
- Improved **latency issues** on time-sensitive reporting, which was a major risk for losing the gambling license, from the order of multiple seconds to a few **milliseconds** in a legacy system;

Key Technologies: Java, Scala, Kafka, PostgreSQL and a range of GCP products including GKE, Stackdriver, Cloud SQL.

Software Development Engineer **Amazon** **January 2017 – December 2019**

- Developed high scale services for the **AFT (Amazon Fulfilment Technologies)** and features for the Marketplace on the Retail Website;
- Built **event-driven services** using the AWS Serverless stack. Including, matching algorithms for inventory and inbound invoices, large-scale data collection and Data Warehousing storage and others;
- On the Marketplace team, we've built features used by **dozens of millions of users** across the globe, following Amazon's **low-latency** requirements for the website, including payment in installments, invoice generation for foreign sellers, and a range of other functionalities on the search, and checkout pages of the website;
- Improved our oncall by automating all steps of our internal infrastructure, including Cloudformation for resource generation and Ruby scripts to generate Wiki pages, monitoring and alarms;
- Started out as an intern and moved to a full time position on **May 2018**;

Key Technologies: Java, Python, Javascript and a wide range of AWS products including Lambda, SQS, SNS, DynamoDB, Redshift and others.

Software Developer **Evolution IT** **August 2015 – April 2016**

- Developed multiple mobile applications, from native iOS apps written in Objective-C to Javascript hybrid solutions, both for internal projects and external customers;
- Worked on a barter application for Bayer, responsible for the implementation of their option pricing model on the local application;

Key Technologies: Objective-C, Javascript, OpenUI5, Phonegap.

Research Intern **The University of Sydney** **December 2014 – February 2015**

- Developed a native Android Application that would track animals on a live video feed for a Korean government funded research institution (ETRI);

Key Technologies: Java, Android.

Education

B. Sc. Computer Science **Universidade Mackenzie** **July 2013 – July 2018**

- Bachelor Thesis was titled **Probability Models applied to Football**, and focused on implementing and analyzing multiple models on predicting football matches outcomes;

Exchange Program **The University of Sydney** **July 2014 – July 2015**

- Awarded the **Science Without Borders scholarship**, on a nationwide program, for a one-year exchange program at the university and research during the summer;

Additional Experience and Awards

- Exposed **one of the largest security breaches** in Brazil's public transportation system which allowed users to ride the subway and buses for free simply by using a smartphone, and was reported in several major newspapers. You can read more on the news coverage here;
- Collectively, my apps on Google Play were downloaded by **over 300,000 users** across the globe;

Personal Projects

- Football Probability: Built a web scrapper that collected over 100 years worth of Brazilian football data and a software that can calculate the expected outcome of a given match or simulate an entire league. Java
- NFC Activity Monitor Android module that intercepted NFC calls in runtime to log its communications, based on the Xposed Framework. Java, Android Framework
- Trading Bot: Built a trading bot connected to B3 (Brazil's stock exchange) on top of HummingBot with different strategies implemented and hosted on TraderHost to achieve up to 5ms latency connection to B3. Python