

Employment

Tech Lead	Hubspot	July 2024 – Present
<ul style="list-style-type: none">Leading a team of 5 which is responsible for making the systems that renders all marketing e-mails sent by HubSpot. Our team owns multiple services, each one handling over 10,000 requests per second at peak and are a critical part of the e-mail sending pipeline;Built the POC for a feature that personalises the e-mail for each individual contact sent using AI. The POC went on to become a feature and mentioned in the keynote at Hubspot's marketing conference in 2025.Worked on a number of other AI features used in the e-mail editor, such as generating subject line and preview text for e-mails to increase the open rate for e-mails; <p>Key Technologies: Java, SQL databases, Kafka-based systems, and a number of internal tools for LLMs, RAG and LLM evaluation.</p>		
Senior Software Engineer	Holistic AI	April 2023 – May 2024
<ul style="list-style-type: none">I work closely with the Data Scientists to develop and deploy a range of AI systems. Setting up inference servers using Triton, deploying our models, and building the production APIs around it;Built a service to automate gathering information on the client's systems using a LLM (Large Language Model) which extracts necessary information to generate a risk assessment on the system;Optimized the total running time of our data extraction service from upwards of 15 minutes down to less than 2 minutes and reducing the costs from over £5,000 a month to under £100, by re-architecting the service and moving to a Serverless architecture. <p>Key Technologies: Python, Java, Typescript, React, Datadog for monitoring and services deployed on GCP and Azure on Kubernetes, and AWS using the Serverless stack.</p>		
Software Engineer, Enterprise	Meta	January 2022 – March 2023
<ul style="list-style-type: none">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; <p>Key Technologies: Hack, Python, React, Typescript, GraphQL.</p>		
Software Engineer	NetEnt	January 2020 – December 2021
<ul style="list-style-type: none">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; <p>Key Technologies: Java, Scala, Kafka, PostgreSQL and a range of GCP products including GKE, Stackdriver, Cloud SQL.</p>		
Software Development Engineer	Amazon	January 2017 – December 2019
<ul style="list-style-type: none">Developed high scale services for the AFT (Amazon Fulfilment Technologies) and features for the Marketplace on the Amazon 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; <p>Key Technologies: Java, Python, Javascript and a wide range of AWS products including Lambda, SQS, SNS, DynamoDB, Redshift and others.</p>		

Education

B. Sc. Computer Science

Universidade Mackenzie

July 2013 – July 2018

- One of my research projects exposed **one of the largest security breaches** in the Brazilian public transportation system which allowed users to ride the subway and buses for free using a smartphone, and was reported in several major newspapers. You can [read more on the news coverage here](#);
- 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;