Daniel Romero

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Intro

With more than two decades in the technology industry, I bring a wealth of knowledge in cloud infrastructure, having honed my experience in Docker, Kubernetes, Terraform, Ansible, and leading cloud platforms such as AWS, GCP, and Azure. Successful collaborations in agile and multidisciplinary teams mark my career.

Four years ago, in a recent shift to machine learning, I deepened my AI skill set and deployed robust ML models in production environments. Eager to leverage this well-rounded experience, I seek a full-time data scientist or machine learning engineer role. I'm excited to combine my vast experience by adding value to a new journey.

Skills

- Programming: Python, SQL, Bash
- Database Management: Postgres, MySQL, Pinecone
- Cloud Computing: AWS, GCP, Azure
- DevOps: CI/CD, Docker, Kubernetes
- ML: TensorFlow, Pytorch, Pandas, Numpy, Matplotlib
- AI Technologies: LLM, Langchain, OpenAI

Projects

- JusGPT: A Python-based RAG application tailored for the legal domain, leveraging Langchain and Pinecone to navigate Brazilian legal texts with OpenAI's GPT-4 API.
- Aiuze: Developed a versatile chatbot using Elixir that integrates GPT-4, Pinecone, and Postgres to handle complex user queries, manage emails, and schedule tasks efficiently.
- My workshop on generative AI with a focus on RAG, where I show you how to make your first LLM application. I'm using OpenAI, Pinecone, and LangChain.

Certifications

- Google Data Analytics Professional Certificate Credential
- TensorFlow Developer Certificate Credential

Experience

Platform Engineer/ML **DNSFilter** *Remote, USA* **06/2022 - Current**

- As a Platform Engineer specializing in cloud infrastructure, I employ technologies like Terraform, Ansible, and   to create robust and scalable systems. Additionally, I focus on the observability of applications using tools like Loki, Grafana, Datadog, and eBPF. Besides managing machine learning models in production with Python and Pytorch.

Data Scientist/ML **Henku** *Remote, Estonia* **04/2021 - 06/2022**

- Key architect in refining data quality and automating machine learning pipelines, optimizing the model development lifecycle. I excelled in building and deploying complex ML and Deep Learning models using Python, Scikit-Learn, and TensorFlow for predictive analytics in classification and regression. I championed MLOps initiatives by constructing robust production ML workflows using Airflow, Kubeflow, and SageMaker, ensuring seamless model training and deployment.

Senior Site Reliability Engineer **Elastic** *Remote, USA* **09/2018 - 04/2021**

- Integral to the on-call incident management and deployment of Elastic Cloud, ensuring high availability across AWS, Azure, and GCP in a multi-region, multi-cloud setting. Alongside these responsibilities, I was actively engaged in tooling tasks, explicitly contributing to developing a complex CLI tool for Kubernetes cluster maintenance. This tool comprised a Python API and a binary in Golang, where I implemented some functionalities in both parts.

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Site Reliability Engineer	**Loom Network**	*Remote, USA*	**04/2018 - 09/2018**

- I collaborated on designing and implementing a multi-cloud Kubernetes cluster, with nodes strategically distributed across GCP and AWS. This unique configuration ensured high availability and resilience. Using Go, Docker, Kubernetes, and Ansible to create and maintain scalable infrastructure for Blockchains and DAppChains.
- I also worked on developing an observability platform that uses Prometheus and Grafana to provide real-time monitoring and analytics.

Site Reliability Engineer	**AppProva**	*Remote, Brazil*	**03/2017 - 04/2018**

- I masterminded the seamless transition of Ruby on Rails applications with PostgreSQL databases from AWS to GCP, harnessing the power of Docker and Kubernetes for state-of-the-art containerization and orchestration.
- I leveraged Python-crafted eBPF programs to gain unparalleled system performance insights. I engineered a robust auto-deployment pipeline by integrating Codeship with Google Cloud Build, which fortified the infrastructure's immutability and scalability, markedly enhancing CI/CD processes.

DevOps Engineer	**CloudWalk**	*Remote, Brazil*	**11/2016 - 03/2017**

- Using Golang for the first time, rectified bugs in a production payment gateway; primarily addressed scalability with Docker and CoreOS on AWS and collaborated on implementing PCI-DSS 3.0 requirements with the team.

DevOps Engineer	**Enjoei**	*Remote, Brazil*	**09/2015 - 11/2016**

- I championed the transformation of the API deployment process, migrating from AWS Beanstalk to a sophisticated Docker and Kubernetes environment, culminating in a seamless transition to GCP via Google Kubernetes Engine (GKE), thereby boosting system efficiency and scalability.
- Drove a 40% reduction in operational costs through meticulous performance optimizations of Kubernetes configurations and ElasticSearch tuning. Fortified application security and performance by leveraging Ruby on Rails and PostgreSQL expertise, contributing to a robust, secure, and integrated platform architecture.

Infosec Consultant, Contract	**Initsec**	*Remote, Brazil*	**02/2013 - 09/2015**

- I excelled in performing exhaustive penetration tests on Ruby on Rails applications, pinpointing and rectifying security vulnerabilities to uphold stringent compliance standards. I pioneered pivotal infrastructure overhauls as a DevOps Engineer, masterminding the migration from traditional bare metal servers to AWS cloud solutions.
- I kick-started the containerization journey with LXC, subsequently transitioning to Docker, achieving marked improvements in resource efficiency. I implemented Ansible for automation and precise orchestration of migrations with minimal downtime while adhering to industry best practices.

Software Developer, Contract	**PagaPraMim**	*Remote, Brazil*	**02/2013 - 10/2013**

- Instrumental in steering the design decisions for an innovative online lending and payment system, laying the foundation for a robust application infrastructure. Engaged in full-stack development with Ruby on Rails and PostgreSQL, diligently integrating AWS services to deploy a scalable and secure application. Leveraged extensive development understanding to ensure the application's strategic and technical elements were perfectly aligned with business goals, demonstrating a blend of leadership and technical expertise.

Archived

- **Software developer** between **2007 - 2013** - PHP, Java, Ruby, Ruby on Rails, MySQL, and Postgres
- **Sysadmin** between *2000 - 2007* - Linux, firewalls, proxies, networks, Bash, and Perl