Rodrigo Rafael Hurtado Barzola

+56-995-048-411 | dev@rhurtado.com | linkedin.com/in/rodrigo-hurtado-barzola | github.com/rrhurtado

Experience

Software and MLOps Engineer Dec. 2021 – Present

PhageLab Chile *Santiago, CL*

- Deployed a machine learning model to predict the shelf-life stability for a new bacteriophage formulation, which in retrospective was successful in passing all regulatory requirements. Seamlessly transitioned the model from development to production.
- Prototyping of a reporting web application for clients with Large Language Model integration that resulted in the closing of a contract with one of the largest potential customer in Brazil. Backend using AWS serverless architecture, frontend in React.js.
- Design, development and implementation of a workflow to generate secure, fast and scalable web applications for internal use for the organization and its different areas.
- Architecture, creation and maintenance of pipelines for data extraction, processing and analysis according to state-of-the-art cloud computing practices using Amazon Web Services.
- Specification of requirements and supervision of the development of a prototype web and mobile version of a Laboratory Information Management System (LIMS). Backend using AWS serverless architecture and frontend in React.js.

Software Engineer Mar. 2018 - Nov. 2021

Radar Escolar *Santiago, CL*

- Serve as one of the early software engineers from the beginnings of the EdTech startup until its successful acquisition by a multinational enterprise.
- Integration and deployment of a machine learning model that predicts school repetition for middle and high school students.
- Maintenance and migration of the application from monolithic architecture to microservices architecture.
- Architecture and implementation of 'Pulso Escolar' spin-off platform, with serverless execution and Google Cloud Platform infrastructure, using Python and Node.js.
- Main platform backend and frontend development in Ruby-on-Rails and Vue.js respectively.

Software Engineer Freelance Jun. 2021 - Dec. 2021

Brave UP *Santiago, CL*

- Created a sociogram using a clustering algorithm in order to visualize social interactions and improve group dynamics in students.
- Development of a web system with real-time and asynchronous processing on Google Cloud Platform using serverless architecture.

Education

Pontifical Catholic University of Chile Jul. 2018 – Jun. 2021

Graduate Research | Django, React, SQL *Santiago, CL*

- Architecture, design and implementation of a web-based system for astronomers to categorize variable stars.
- Proposal for a machine learning model with active learning and real-time classification based on user input, integrated in the cloud with a web-based system.
- Backend and frontend development in Django and React.js respectively

Pontifical Catholic University of Chile Mar. 2012 – Jun. 2018

Bachelor of Engineering Sciences specializing in Computer Science *Santiago, CL*

Certifications

Amazon Web Services

- Solutions Architect Associate
- Cloud Practicioner

Technical Skills

Languages: Python, Ruby, SQL, JavaScript
Frameworks: React.js, Vue.js, Ruby On Rails, Django, Flask
Artificial Intelligence: TensorFlow, AWS Sagemager, LangChain
Infrastructure: AWS CDK, Google Cloud, Terraform, Kubernetes (K8s)
Developer Tools: Git, Docker, GitHub Actions, GitLab CI/CD, Redis