

Gabriel Rudloff Barison

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WORK EXPERIENCE

Concentrix **Barcelona, Spain**
GCP Technical Solutions Representative - BIG DATA & AI *Oct 2023 - Present*

- Deployed batch inference and training pipelines in kubeflow for automatically detecting cases that need special attention helping to act proactively and improve user experience.
- Act as the primary technical solutions contact for Google Cloud's Big Data & AI/ML products, specializing in monitoring, reproducing, and troubleshooting faulty architectures.
- Provide hands-on assistance with GCP services: Vertex AI (Pipelines, Models, Custom training, AutoML, Gemini, Workbench), Dialogflow, BigQuery, Composer (Managed Airflow), Pub/Sub, Dataproc (Managed Spark), Dataflow (Managed Beam) and others.
- Advocate for and negotiate client interest to shape and improve the products towards user requirements.
- Manage a high-volume caseload of 15-22 cases. Thrive in a high-stakes, dynamic environment.

AC3E **Valparaiso, Chile**
Research Assistant *Apr 2023 - Jul 2023*

- Research on earthquake detection with fiber optic distributed acoustic sensing (DAS).
- Investigated the prospects and developed tools for earthquake predictions on the frequency-wavenumber domain.

Inria **Lille, France**
Software Engineer *Jan 2020 - Apr 2020*

- Developed metric-learn, a Python package that forms part of scikit-learn contributions package.
- The package implements algorithms that implicitly obtain a space transformation where the Euclidean distance is proportional to the semantic relation between pairs.
- Contributed through git pull requests, with my main contribution being the implementation of SCML, an innovation from the research group.

Kauel **Santiago, Chile**
Development Engineer *Jan 2019- Apr 2019*

- Contributed to key projects and enhanced my technical skills.
- Worked on designing and developing systems using AI and IoT, interfacing with clients, and delivering proof-of-concept demos.

Universidad Técnica Federico Santa María **Valparaiso, Chile**
Teaching Assistant *Jan 2017 - Dec 2017*

- Led weekly reinforcement in two classes, namely Probability & Stochastic Processes and Linear Algebra & Calculus.

EDUCATION

Universidad Técnica Federico Santa María **Valparaiso, Chile**
M.S. IN ELECTRONIC ENGINEERING *Graduation Date: 2023*

- Mention in Telecommunications and Signal Processing.
- Researched the application of Artificial intelligence in the context of fiber optic sensors. Specifically, designing and developing a CNN-based autoencoder solution written in Pytorch for Spectral-overlapped WDM in the context of FBGs.

Universidad Técnica Federico Santa María **Valparaiso, Chile**
B.S. IN ELECTRONIC ENGINEERING *Graduation Date: 2020*

- Mention in Computer Science.

PUBLICATIONS

Gabriel Rudloff and Marcelo A. Soto (2023). “Peak detection of spectrally-overlapped fibre Bragg gratings using an autoencoder convolutional neural network”. In: European Workshop on Optical Fibre Sensors (EWOFS 2023). doi: 10.1117/12.2679924.

Gabriel Rudloff and Marcelo A. Soto (2024). “Multipeak Wavelength Detection of Spectrally Overlapped Fiber Bragg Grating Sensors Through a CNN-Based Autoencoder”. In: IEEE Sensors Journal 24.13, pp. 20674–20687. doi: 10.1109/JSEN.2024.3400819.

CERTIFICATES

Google Cloud

Professional Machine Learning Engineer

Aug 2024

Google Cloud

Associate Cloud Engineer Certification

Jun 2024

Cambridge

First Certificate of English (FCE) level B2

Dec 2013

SKILLS & INTERESTS

Programming languages: Python, SQL, BASH, C/C++, Matlab, Assembly, Java, Verilog, LATEX, HTML

Frameworks, Libraries & Technologies: Kubeflow, Airflow, Git, Numpy, Pytorch, Tensorflow, Pandas, Sklearn, Xgboost, Matplotlib, Seaborn, PySpark, Pytest, OpenCV, Altium Designer, Vrep

Languages: Spanish (Native), English (Full professional proficiency)

Hobbies: Guitar, Boulderling

CONTACT INFO

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