



DEVA SOU

Bioinformatics Engineer

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BORDEAUX
France

CAREER GOALS

Coming from Reunion Island, I want to use my knowledge of bioinformatician and data scientist for the environment.

CORE STRENGTHS

- Calm
- Adaptation
- Determined
- Open minded
- Passionate
- Very organised

HOBBIES

- Sea Rowing
- Climbing
- Environmental issues
- Cooking
- Bartending
- Minimalism, Low Tech

ACADEMIC HISTORY

Master's degree of Computational Biology.

UNIVERSITÉ DE BORDEAUX | FRANCE (2020-2022)

Bachelor's Degree of Environmental biology.

UNIVERSITÉ DE BORDEAUX | FRANCE (2017-2020)

Le Wagon's 8-weeks-bootcamps | Bordeaux, France

CERTIFICATION COURSE IN **DATA-SCIENCE** (SUMMER 2021)

2-weeks sprint project: Ruby on Rails Application using "Météo France" database for weather forecasting running Artificial Intelligence models. The goal was to compare Numerical, Machine Learning and Deep Learning models.

CERTIFICATION COURSE IN **WEB-DEVELOPMENT** (SUMMER 2020)

2-weeks sprint project; Ruby on Rails Application using Sea-Life databases to implement a world-wide illustrated encyclopaedia based on species geo-positions.

SKILLS

Informatics

- **Algorithm, Programmation, OOP:** C, C++, Python, Java (Design Pattern, DDD), Shell Scripts.
- **Web Development:** Javascript, Ruby, HTML, CSS, Web Scrapping (beautifulsoup), Flask, ShinyApp.
- **Data-Science:** Jupyter Notebooks, Pandas, NumPy.
- **Machine Learning & Deep Learning:** Scikit-learn, TensorFlow, Keras, Google Colab.
- **Data Visualisation:** Matplotlib, Seaborn.
- **Data Engineering:** MLFlow, Docker, Google Cloud AI Platform, FASTAPI, NodeJS.
- **Software Engineering:** UML.
- **Database:** SQLite, postgresql, mongodb, dbeaver.
- **Image Processing:** ImageJ, 3D Modelling
- **OS:** MacOS, Ubuntu, Windows with WSL.

Bio-informatics

Omics & NGS: Galaxy, FastQC, FASTQ Groomer, DNA-seq Mapping (Bowtie, BWA), Sequence Alignment (BLAST, SAMtools, BioPython), SNP Predictions (Varscan), Visual exploration of genomic data (IGV), Protein DataBanks (NCBI), OTU finding (pipeline FROGS), Comparative Genomics.
Biostatistics: R, SciPy, PCA.

WORKING HISTORY

Full-Stack Developer (3 months internship).

TEAGASC (THE AGRICULTURE AND FOOD DEVELOPMENT AUTHORITY), CARLOW | IRELAND (2021)

Application to display meteorological data and predicting grass growth in Ireland (R - Leaflet - FileZilla). Connected on a FTP server.

Front-End Developer (2 months internship).

LABRI (LABORATOIRE DE RECHERCHE EN INFORMATIQUE), BORDEAUX | FRANCE (2019)

Website to display machine learning results on biological data (HTML - CSS - JS). The data was in .csv format. Chart.js was used for charts and the application was deployed with Heroku.

Marine Biologist (2 months internship).

AQUARIUM DE LA RÉUNION, SAINT PAUL | REUNION ISLAND (2017)

Animal keeper for Indian Ocean marine life (chemical follow-ups on the aquarium water in a closed circuit, coral cuttings, taking care of various marine animals...).

Barman | Cook | Waiter

HÔTEL SWALIBO (SAINT-PAUL | REUNION ISLAND), AU BUREAU (ARCACHON | FRANCE), (2009-2016)

During those years, I worked as a bartender, a cook or a waiter in different places.

Biology.

-- Fundamental Biology knowledge:

- Microbiology and cellular biology
- Population Genetics
- Physics and physiology
- Chemistry, biochemistry, thermodynamics, enzymology
- Geosciences
- Molecular Biology and Genetics

-- Fundamental Ecology knowledge:

- Surveys and Inventory of Organisms
- Animal and plant biology
- Taxonomy and Species Identification.
- Marine Biology and Ecology

Transversal

Science: Redaction, Bibliographic Research, LaTeX.

Teamwork: Git & GitHub, OverLeaf, Notion, Slack, Trello.

Office: LibreOffice, GoogleWorkspace, MicrosoftOffice.

Language: French (Fluent), English (C1, Everyday and Scientific).