

Jan Alfonso Busker

1-4-1999

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I love solving complex problems within the bioinformatics domain or the data world. A bioinformatics student with a passion for building web applications and dashboards. That is the best description that fits me.

Studies

RSG, Oudeweg 41, 9561 LB, Ter Apel HAVO Nature & Health	2011 - 2016
Hanze, Petrus Driessenstraat 3, 9714 CA, Groningen HBO MBRT	2016 - 2018
Hanze, Zernikeplein 11, 9747 AS, Groningen HBO Bio-informatica	2020 – Current

Working experience/Projects Bio-Informatica

Minor Application Design

- A website where protein structures are looked at in a different way. Using PCA at the atomic coordinates. And they can compare these with other proteins.

Website/Webapplication

- Next Generation Sequencing webapplication. Where laboratory technicians of Hanze can manage their sequencing results and perform small simple analyses on them.

Diagnostic Genome Analysis

- Performed genetic testing based on raw next generation sequencing data to uncover and classify genomic variations.

Python Pipeline / Snakemake

- The purpose of this project was to modify/rewrite an existing alignment pipeline to get feedback on what, if any, is wrong with the data. And rewriting it to a Snakemake file.

Gene expression analysis

- Learned the entire process of analysing a dataset of gene expression data measured by the RNA sequencing technique.

Modelling biological systems

- Developing mathematical tools that allow a complete description of CRC switching. Using 2 different articles with different models.

Integrating a Flask website and a Dash dashboard

- Successfully integrated Plotly Dash into my Flask app with a clever workaround. To build interactive Plotly Dash interfaces into my Flask applications.

Machine Learning on yeast data

- Successful characterisation of a simple classification model. That will predict protein localisations at cellular sites with 68% certainty.

Working experience

2016 – 2018

AFB international

Function:

Holiday shift worker

Adress:

Handelsweg 24, 9563 TR, Ter Apelkanaal

2019 – 2022

Ten Kate Vetten

Function:

Auxiliary weekend worker

Adress:

Handelsweg 22, 9563 TR, Ter Apelkanaal

2022 – Heden

Ikea BV

Function:

Customer service representative

Adress:

Sontweg 9, 9723 AT Groningen

Skills

Data: Python, Pandas, NumPy, Dash, R, SQL, MySQL, Excel, Plotly

Other: HTML/CSS, Tailwind, JavaScript, Java, Spring

Overig

Driving licence: B

Languages:

- | | | |
|--------------|---|---------------|
| • Nederlands | - | Mother tongue |
| • Engels | - | Excellent |