

BIANCA STANCU

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EXPERIENCE

Field Project: Consultancy Study

2018 – Present

Undertaking a consultancy project on a team of four with the aim of shifting the customer segmentation method from RFM (Recency Frequency Monetary) customer value to an unsupervised machine learning model. Adding supervised ML model to predict customer churn. Using **Python** (with **Pandas**, **NumPy**, **Jupyter**).

Growing Power

Lugano, Switzerland

UROP Research Intern

July 2018 – September 2018

Developed a **Java** Android application which builds a shareable emotional fingerprint of a user while they watch a video. Incorporated facial expression recognition (with **Affectiva** API), as well as heart rate and galvanic skin response (GSR) from an **Empatica** wearable device.

Università della Svizzera Italiana

Lugano, Switzerland

Software Engineering Intern - Google Trips

June 2017 – September 2017

Improved on the user experience in the restaurants section of the Google Trips Android app. Implemented list filtering, sorting, and a search system using **Java** (with **Espresso** UI tests) and **Go**. Worked on item caching to speed up searches.

Google Zürich

Zürich, Switzerland

Junior Developer

July 2015 – June 2017

Designed a system to automate generating quotes for clients as part of capstone work. Shadowed employees to research the operation of the company.

SC Nitech SRL

Bucharest, Romania

EDUCATION

Master in Management and Informatics

September 2017 – June 2019

Currently working on my master's thesis based on biometric (heart rate, GSR) and digital data (app usage, responses to surveys, activities etc) gathered from students, to infer their engagement in lectures as well as other correlated mental and emotional information.

Università della Svizzera Italiana

Lugano, Switzerland

- Average grade (year 1): 9.43/10
- Earned one of the 10 scholarships for master's students offered by the university.
- Favourite modules: Information Security (with **Python**); Distributed Systems (with **Python**, **Ethereum** project); Business Intelligence and Applications; Business Process Modelling, Management and Mining (with **UML**, **BPMN**); Project Management.

Bachelor's in Economic Informatics

September 2014 – June 2017

Bachelor thesis: 'Informatics System for Sports Centre Management', using **PHP** (with **Laravel**) and **MySQL**. Defended with 10/10.

University of Economic Studies

Bucharest, Romania

- Average grade (overall): 9.45/10
- Earned merit scholarship in all 3 years for being in the top 2 % of students.
- Favourite modules: Data Structures (in **C**), Programming Algorithms and Techniques (in **C/C++**), Evolutional Programming and Genetic Algorithms, Data Analytics (**R**), Windows Application Programming (**C#**), Databases (**SQL**, **PL/SQL**).

PROJECTS

Student Scientific Contest (Honourable Mention)

2016. Team of 2

Developed a **Java** Android application prototype which gathers information from a user and gives them recommendations to make certain medical appointments based on their medical records. Communicated over **REST** with a **Java** server interacting with **MySQL**.

University of Economic Studies

Bucharest, Romania