Bianca Stancu

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Experience

Research Student — **HERE Technologies**
February 2019 - June 2019 — *Zürich, Switzerland*
Part of location privacy research team. Took part in a project involving data mining and machine learning pipelines using **Python** (pandas, Scikit, NumPy, Jupyter) and **Drill SQL**.

UROP Research Intern — **Università della Svizzera Italiana**
July 2018 – September 2018 — *Lugano, Switzerland*
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.

Software Engineering Intern - Google Trips — **Google Zürich**
June 2017 – September 2017 — *Zürich, Switzerland*
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.

Junior Developer — **SC Nitech SRL**
July 2015 – June 2017 — *Bucharest, Romania*
Designed a system to automate generating quotes for clients as part of capstone work. Shadowed employees to research the operation of the company.

Education

Exchange Semester — **Universität Zürich**
February 2019 – June 2019 — *Zürich, Switzerland*
Mobility student enrolled in **Practical AI** and **Quantitative HCI** courses.

Master in Management and Informatics — **Università della Svizzera Italiana**
September 2017 – June 2019 — *Lugano, Switzerland*
Master thesis: *Automatic Identification of Artifacts in Wearable Sensor Data*, using autoencoders with **Python (Keras)**. For the purpose of this thesis, I also contributed to a mobile sensing **Android** application (Java) and developed a data labelling dashboard using **Dash**. Defended with 10/10.

- Average grade (overall): 9.62/10
- 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; Lean Six Sigma.

Bachelor's in Economic Informatics — **University of Economic Studies**
September 2014 – June 2017 — *Bucharest, Romania*
Bachelor thesis: *Informatics System for Sports Centre Management*, using **PHP** (with **Laravel**) and **MySQL**. Defended with 10/10.

- 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**).

Publications

Movie+: Towards Exploring Social Effects of Emotional Fingerprints for Video Clips and Movies, *A. Fedosov, B. Stancu, E. DiLascio, D. Eynard, M. Langheinrich*
May 2019 *CHI 2019, Glasgow*
Android mobile application, which utilizes personal biophysical data to construct an individual's *emotional fingerprint* while viewing a video clip.
Link: *https://dl.acm.org/citation.cfm?doid=3290607.3313261*

Projects

Field Project: Consultancy Study **Growing Power**
September 2018 – December 2018 *Lugano, Switzerland*
Undertook 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 machine learning model to predict customer churn and peforming market basket analysis using FP-Growth algorithm. **Python** (with **pandas, NumPy, Jupyter, Scikit**).

Student Scientific Contest (Honourable Mention) **University of Economic Studies**
2016. Team of 2 *Bucharest, Romania*
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**.