Bianca Stancu

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Experience

Research Student   **HERE Technologies**
February 2019 - Present   *Zürich, Switzerland*
Student part of research team, using **Python** (Pandas,NumPy, Jupyter, Scikit) 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*
Currently working on my master's thesis based on automation of artifacts removal from
electrodermal activity signals using autoencoders.

- 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; 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*
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**).

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**.